acgggcggaa tagagtggct taattctcga tctatcccca cgtatgcatc tgaattaaca 360
aatgaactgc ttaaaaaaga cggtaaggtt caagccacaa attcatttag cggagttaac 420
tattggctag ttaaaaataa aattgaagtt ttttatccag gcccgggaca cactccagat 480
aacgtagtgg tttggttgcc tgaaaggaaa atattattcg gtggttgttt tattaaaccg 540
tacggtttag gcaatttggg tgacgcaaat atagaagctt ggccaaagtc cgccaaatta 600
ttaaagtcca aatatggtaa ggcaaaactg gttgttccaa gtcacagtga agttggagac 660
gcatcactct tgaaacttac attagagcag gcggttaaag ggttaaacga aagtaaaaaa 720
ccatcaaaac caagcaacta a 741

<210> 1434
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1434
cacaatcaag accaagattt gcgat 25

<210> 1435
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1435
gaaagggcag ctcgttacga tagag 25

<210> 1436
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1436
cagcatcaac atttaagatc ccca 24

<210> 1437
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1437
ctccacttga ttaactgcgg aaattc 26

<210> 1438
<211> 828
<212> DNA
<213> Escherichia coli

<400> 1438
atggcaatcc gaatcttcgc gatacttttc tccatttttt ctcttgccac tttcgcgcat 60
gcgcaagaag gcacgctaga acgttctgac tggaggaagt ttttcagcga atttcaagcc 120
aaaggcacga tagttgtggc agacgaacgc caagcggatc gtgccatgtt ggtttttgat 180
cctgtgcgat cgaagaaacg ctactcgcct gcatcgacat tcaagatacc tcatacactt 240
tttgcacttg atgcaggcgc tgttcgtgat gagttccaga tttttcgatg ggacggcgtt 300
aacaggggct ttgcaggcca caatcaagac caagatttgc gatcagcaat gcggaattct 360
actgtttggg tgtatgagct atttgcaaag gaaattggtg atgacaaagc tcggcgctat 420
ttgaagaaaa tcgactatgg caacgccgat ccttcgacaa gtaatggcga ttactggata 480
gaaggcagcc ttgcaatctc ggcgcaggag caaattgcat ttctcaggaa gctctatcgt 540
aacgagctgc cctttcgggt agaacatcag cgcttggtca aggatctcat gattgtggaa 600
gccggtcgca actggatact gcgtgcaaag acgggctggg aaggccgtat gggttggtgg 660
gtaggatggg ttgagtggcc gactggctcc gtattcttcg cactgaatat tgatacgcca 720
aacagaatgg atgatctttt caagagggag gcaatcgtgc gggcaatcct tcgctctatt 780
gaagcgttac cgcccaaccc ggcagtcaac tcggacgctg cgcgataa 828

<210> 1439
<211> 801
<212> DNA
<213> Pseudomonas aeruginosa

<400> 1439
atgaaaacat ttgccgcata tgtaattatc gcgtgtcttt cgagtacggc attagctggt 60
tcaattacag aaaatacgtc ttggaacaaa gagttctctg ccgaagccgt caatggtgtc 120
ttcgtgcttt gtaaaagtag cagtaaatcc tgcgctacca atgacttagc tcgtgcatca 180
aaggaatatc ttccagcatc aacatttaag atccccaacg caattatcgg cctagaaact 240
ggtgtcataa agaatgagca tcaggttttc aaatgggacg gaaagccaag agccatgaag 300
caatgggaaa gagacttgac cttaagaggg gcaatacaag tttcagctgt tcccgtattt 360
caacaaatcg ccagagaagt tggcgaagta agaatgcaga aataccttaa aaaattttcc 420
tatggcaacc agaatatcag tggtggcatt gacaaattct ggttggaagg ccagcttaga 480
atttccgcag ttaatcaagt ggagtttcta gagtctctat atttaaataa attgtcagca 540
tctaaagaaa accagctaat agtaaaagag gctttggtaa cggaggcggc acctgaatat 600
ctagtgcatt caaaaactgg tttttctggt gtgggaactg agtcaaatcc tggtgtcgca 660
tggtgggttg ggtgggttga gaaggagaca gaggtttact ttttcgcctt taacatggat 720
atagacaacg aaagtaagtt gccgctaaga aaatccattc ccaccaaaat catggaaagt 780
gagggcatca ttggtggcta a 801

<210> 1440
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1440
agaccgttat cgtaaacagg gctaag 26

<210> 1441
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1441
ttttttgctc aaacttttc aggatc 26

<210> 1442

<211> 927
<212> DNA
<213> Pseudomonas aeruginosa strain RNL-1

<400> 1442
atgaatgtca ttataaaagc tgtagttact gcctcgacgc tactgatggt atcttttagt 60
tcattcgaaa cctcagcgca atccccactg ttaaaagagc aaattgaatc catagtcatt 120
ggaaaaaaag ccactgtagg cgttgcagtg tgggggcctg acgatctgga acctttactg 180
attaatcctt ttgaaaaatt cccaatgcaa agtgtattta aattgcattt agctatgttg 240
gtactgcatc aggttgatca gggaaagttg gatttaaatc agaccgttat cgtaaacagg 300
gctaaggttt tacagaatac ctgggctccg ataatgaaag cgtatcaggg agacgagttt 360
agtgttccag tgcagcaact gctgcaatac tcggtctcgc acagcgataa cgtggcctgt 420
gatttgttat ttgaactggt tggtggacca gctgctttgc atgactatat ccagtctatg 480
ggtataaagg agaccgctgt ggtcgcaaat gaagcgcaga tgcacgccga tgatcaggtg 540
cagtatcaaa actggacctc gatgaaaggt gctgcagaga tcctgaaaaa gtttgagcaa 600
aaaacacagc tgtctgaaac ctcgcaggct ttgttatgga agtggatggt cgaaaccacc 660
acaggaccag agcggttaaa aggtttgtta ccagctggta ctgtggtcgc acataaaact 720
ggtacttcgg gtatcaaagc cggaaaaact gcggccacta atgatttagg tatcattctg 780
ttgcctgatg gacggccctt gctggttgct gtttttgtga aagactcagc cgagtcaagc 840
cgaaccaatg aagctatcat tgcgcaggtt gctcagactg cgtatcaatt tgaattgaaa 900
aagctttctg ccctaagccc aaattaa 927

<210> 1443
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1443
cttctgctct gctgatgctt ggc 23

<210> 1444
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1444
ggcgaccagg tattttgtaa tactgc 26

<210> 1445
<211> 927
<212> DNA
<213> Salmonella typhimurium strain JMC

<400> 1445
atgaatgtca tcacaaaatg tgttttcacc gcttctgctc tgctgatgct tggcttaagt 60
tcatttgtag tatcagccca atccccttttg ttaaaagagc agattgaaac catagtgacg 120
ggtaaaaagg ccactgtagg tgtagcagtg tgggggcctg acgatctgga acctttgttg 180
ctgaatccat ttgaaaagtt tccgatgcaa agtgtgttta aactgcattt agctatgtta 240
gttctgcatc aggtcgatca ggggaaactg gatttaaatc agtctgttac tgttaatcgt 300
gctgcagtat tacaaaatac ctggtcgcca atgatgaaag atcatcaggg cgatgaattt 360
actgttgcag tacagcagtt actgcagtat tcggtgtcac acagcgacaa tgtggcctgc 420
gatttgttat ttgaactggt gggcgggccg caagctttgc atgcttatat ccagtcttta 480
ggcgttaaag aagctgccgt ggtagcaaat gaagcgcaaa tgcatgcgga tgatcaggtg 540
caatatcaaa actggacgtc gatgaaagcc gcagcacaag ttctgcaaaa gtttgaacag 600
aaaaagcagt tgtctgaaac ctctcaggcc ttgttatgga aatggatggt tgaaaccacc 660

acaggaccac agcggttaaa aggcttgtta cctgctggta ctatagtggc gcataaaacc 720
ggtacttcgg gcgtcagagc aggaaaaact gcggcgacta atgatgcggg cgtcattatg 780
ttgcctgatg gacggccttt attggtggcg gtatttgtca aggattcggc tgaatcagaa 840
cgaaccaatg aagctattat tgcgcaggtt gcgcaagcgg cttatcagtt tgagctgaaa 900
aaactctctg cagtgagtcc ggattga 927

<210> 1446
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1446
ggcctgygat ttgttatttg aactggt 27

<210> 1447
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1447
cgctstggtc ctgtggtggt ttc 23

<210> 1448
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1448
gatcaggtgc artatcaaaa ctggac 26

<210> 1449
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1449
agcwggtaac aayccttta accgct 26

<210> 1450
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:

Oligonucleotide

<400> 1450
accactggga atacacttgt aatggc 26

<210> 1451
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1451
atctacctgg tcaatcattg cttcgt 26

<210> 1452
<211> 486
<212> DNA
<213> Staphylococcus epidermidis strain BM10393

<400> 1452
atgacattat caataattgt cgctcacgat aaacaaagag tcattgggta ccaaaatcaa 60
ttaccttggc acttaccaaa tgatttaaag catattaaac aactgaccac tgggaataca 120
cttgtaatgg cacggaaaac ttttaattct atagggaagc cattgccaaa tagacgtaac 180
gtcgtactca ctaaccaagc ttcatttcac catgaagggg tagatgttat aaactctctt 240
gatgaaatta aagagttatc tggtcatgtt tttatatttg gaggacaaac gttatacgaa 300
gcaatgattg accaggtaga tgatatgtat atcacagtaa tagatggaaa gtttcaagga 360
gacacattct ttccaccata cacattcgaa aactgggaag tcgaatcttc agtagaaggt 420
caactagatg aaaaaaatac tataccgcat acattcttac atttagtgcg tagaaaaggg 480
aaatag 486

<210> 1453
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1453
atcgaagaat ggagttatcg graatg 26

<210> 1454
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1454
cctaaaaytr ctggggattt cwgga 25

<210> 1455
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1455
caggtggtgg ggagatatac aaaa 24

<210> 1456
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1456
tatgttagas rcgaagtctt ggktaa 26

<210> 1457
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1457
caaaggtgaa cagctcctgt tt 22

<210> 1458
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1458
tccgttattt tctttaggtt ggttaaa 27

<210> 1459
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1459
aaggtgaaca gctcctgttt 20

<210> 1460
<211> 22
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1460
gatcactacg ttctcattgt ca 22

<210> 1461
<211> 474
<212> DNA
<213> Escherichia coli

<400> 1461
gtgaaactat cactaatggt agctatatcg aagaatggag ttatcgggaa tggccctgat 60
attccatgga gtgccaaagg tgaacagctc ctgtttaaag ctattaccta taaccaatgg 120
ctgttggttg gacgcaagac ttttgaatca atgggagcat tacccaaccg aaagtatgcg 180
gtcgtaacac gtccaagttt tacatctgac aatgagaacg tagtgatctt tccatcaatt 240
aaagatgctt taaccaacct aaagaaaata acggatcatg tcattgtttc aggtggtggg 300
gagatataca aaagcctgat cgatcaagta gatacactac atatatctac aatagacatc 360
gagccggaag gtgatgttta ctttcctgaa atccccagca attttaggcc agtttttacc 420
caagacttcg cctctaacat aaattatagt taccaaatct ggcaaaaggg ttaa 474

<210> 1462
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1462
gcactcccya ataggaaata cgc 23

<210> 1463
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1463
agtgttgctc aaaaacaact tcg 23

<210> 1464
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1464
acgttygaat ctatgggmgc act 23

<210> 1465
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1465
gtcgataagt ggagcgtaga ggc 23

<210> 1466
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1466
aagcattgac ctacaatcag tgt 23

<210> 1467
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1467
aatacaacta cattgtcatc atttgat 27

<210> 1468
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1468
cgttacccgc tcaggttgga catcaa 26

<210> 1469
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1469
catccccctc tggctcgatg tcg 23

<210> 1470
<211> 474
<212> DNA
<213> Escherichia coli

<400> 1470

ttgaaagtat cattgatagc tgcgaaacga aaaaacggcg tgattggttg cggtccagac 60
ataccgtggt ccgcgaaagg ggagcagcta ctttttaaag cattgaccta caatcagtgt 120
cttctggtgg gtcgcaagac gtttgaatct atgggcgcac tccccaatag gaaatacgcg 180
gtcgttaccc gctcaggttg gacatcaaat gatgacaatg tagttgtatt tcagtcaatc 240
gaagaggcca tggacaggct agctgaattc accggtcacg ttatagtgtc tggtggcgga 300
gaaatttacc gagaaacatt acccatggcc tctacgctcc acttatcgac gatcgacatc 360
gagccagagg gggatgtttt cttcccgagt attccaaata ccttcgaagt tgtttttgag 420
caacacttta cttcaaacat taactattgc tatcaaattt ggaaaaaggg ttaa 474

<210> 1471
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1471
gataatgaca acgtaatagt attccc 26

<210> 1472
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1472
gctcaatatc aatcgtcgat ata 23

<210> 1473
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1473
ttaaagcctt gacgtacaac cagtgg 26

<210> 1474
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1474
tgggcaatgt ttctctgtaa atctcc 26

<210> 1475
<211> 474
<212> DNA
<213> Escherichia coli

<400> 1475
gtgaaagtat cattaatggc tgcaaaagcg aaaaacggag tgattggttg cggtccacac 60
ataccctggt ccgcgaaagg agagcagcta ctctttaaag ccttgacgta caaccagtgg 120
cttttggtgg gccgcaagac gttcgaatct atgggagcac tccctaatag gaaatacgcg 180
gtcgttactc gctcagcctg gacggccgat aatgacaacg taatagtatt cccgtcgatc 240
gaagaggcca tgtacgggct ggctgaactc accgatcacg ttatagtgtc tggtggcggg 300
gagatttaca gagaaacatt gcccatggcc tctacgctcc atatatcgac gattgatatt 360
gagccggaag gagatgtttt ctttccgaat attcccaata ccttcgaagt tgtttttgag 420
caacacttta gctcaaacat taactattgc tatcaaattt ggcaaaaggg ttaa 474

<210> 1476
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1476
ggcgagcagc tcctattcaa ag 22

<210> 1477
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1477
taggtaagct aatgccgatt caaca 25

<210> 1478
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1478
gagaatggag taattggctc tggatt 26

<210> 1479
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1479
gcgaaataca caacatcagg gtcat 25

<210> 1480
<211> 474
<212> DNA

<213> Proteus mirabilis strain J120

<400> 1480
atgaaaatat ctcttatggc agctgtttcc gagaatggag taattggctc tggattggat 60
ataccttggc atgtacaagg cgagcagctc ctattcaaag ccatgactta caatcaatgg 120
cttctagttg gtcgtaaaac cttcgactca atgggtaaac ttccgaatag aaaatatgca 180
gtggttactc gttctaaaat tatctcgaat gaccctgatg ttgtgtattt cgcaagtgtt 240
gaatcggcat tagcttacct aaacaatgcg acagcacata tctttgtttc tggtggtggt 300
gaaatatata aagctttaat cgatcaagca gatgttatcc atctttcagt gattcacaag 360
catatctctg gcgatgtgtt ttttcctcca gttccacagg gcttcaagca aacatttgag 420
caaagtttca gttcaaatat tgattacacg taccaaattt gggcaaaggg ctaa 474

<210> 1481
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1481
rttacagatc atktatatgt ctct 24

<210> 1482
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1482
taatttatat tagacawaaa aaactg 26

<210> 1483
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1483
carygtcaga aaatggcgta atc 23

<210> 1484
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1484
tkcaaagcrw tttctattga aggaaa 26

<210> 1485

<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1485
aaaatggcgt aatcggtaat ggc 23

<210> 1486
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1486
catttgagct tgaaattcct ttcctc 26

<210> 1487
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1487
aatcgaaaat atgcagtagt gtcgag 26

<210> 1488
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1488
agactattgt agatttgacc gcca 24

<210> 1489
<211> 474
<212> DNA
<213> Escherichia coli strain VA292

<400> 1489
ttgaaaattt cattgatttc tgcaacgtca gaaaatggcg taatcggtaa tggccctgat 60
atcccatggt cagcaaaagg tgagcagtta ctctttaaag cgctcacata taatcagtgg 120
ctccttgttg gaaggaaaac atttgactct atgggtgttc ttccaaatcg aaaatatgca 180
gtagtgtcga ggaaaggaat ttcaagctca aatgaaaatg tattagtctt tccttcaata 240
gaaatcgctt tgcaagaact atcgaaaatt acagatcatt tatatgtctc tggtggcggt 300
caaatctaca atagtcttat tgaaaaagca gatataattc atttgtctac tgttcacgtt 360
gaggttgaag gtgatatcaa ttttcctaaa attccagaga atttcaattt ggtttttgag 420
cagttttttt tgtctaatat aaattacaca tatcagattt ggaaaaaagg ctaa 474

<210> 1490
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1490
gacctatgag agcttgcccg tcaaa 25

<210> 1491
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1491
tcgccttcgt acagtcgctt aacaaa 26

<210> 1492
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1492
cattttagct gccaccgcca atggtt 26

<210> 1493
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1493
gcgtcgctga cgttgttcac gaaga 25

<210> 1494
<211> 510
<212> DNA
<213> Escherichia coli strain BL26A

<400> 1494
atgatcgagc ttcatgccat tttagctgcc accgccaatg gttgcattgg gaaggacaac 60
gcacttccct ggccaccact aaaaggcgat ctggccagat tcaaaaaatt gaccatgggg 120
aaggtggtca ttatggggcg caagacctat gagagcttgc ccgtcaaatt agaaggtcgc 180
acctgcatcg ttatgacgcg ccaagcgctg gagcttccgg gtgttcgtga cgctaacggc 240
gctatcttcg tgaacaacgt cagcgacgcc atgcggttcg ctcaagaaga gagcgtgggc 300
gatgtggcct acgtcattgg tggcgctgag atattcaagc gacttgcctt gatgatcacg 360
cagattgaat tgacctttgt taagcgactg tacgaaggcg acacctacgt tgatctggcc 420
gaaatggtca aagactacga gcagaatggc atggaagaac atgaccttca cacttacttc 480

acttaccgta aaaaggagct tacagaatga 510

<210> 1495
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1495
tctctaaaca tgattgtcgc tgtc 24

<210> 1496
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1496
cagtgaggca aaagtttttc tacc 24

<210> 1497
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1497
cggacgactt catgtggtag tcagt 25

<210> 1498
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1498
tttgttttca gtaatggtcg ggacct 26

<210> 1499
<211> 534
<212> DNA
<213> Escherichia coli

<400> 1499
atggcttctc taaacatgat tgtcgctgtc aataagacag gaggtatcgg atttgaaaat 60
cagattccgt ggcatgaacc agaagattta aaacacttca aagctgttac aatgaactca 120
gttttgatta tgggtagaaa aacttttgcc tcactgccta aagtgctgcc cggacgactt 180
catgtggtag tcagtaaaac agtaccaccc acccagaaca ctgatcaagt tgtgtatgta 240
agtacatacc agatcgcagt aagaactgca agcttgttgg ttgacaaacc agagtattct 300

caaatttttg taattggtgg gaagagtgcg tacgagaact tagctgccta cgtggacaaa 360
ctctacttaa ctagagtaca gctcaacaca caacaagaca ctgaactgga tttatcccta 420
ttcaagtcat ggaaactcgt atctgaggtc ccgaccatta ctgaaaacaa aacaaaactt 480
attttccaaa tttggattaa ccctaaccct attagtgagg aacccacatg ttag 534

<210> 1500
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1500
atcgggttat tggcaatggt ccta 24

<210> 1501
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1501
gcggtagtta gcttggcgtg agatt 25

<210> 1502
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1502
gcgggcggag ctgagatata ca 22

<210> 1503
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1503
aacggagtgg gtgtacggaa ttacag 26

<210> 1504
<211> 498
<212> DNA
<213> Escherichia coli strain TKS84

<400> 1504
atgaactcgg aatcagtacg catttatctc gttgctgcga tgggagccaa tcgggttatt 60
ggcaatggtc ctaatatccc ctggaaaatt ccgggtgagc agaagatttt tcgcagactc 120

actgagggaa aagtcgttgt catggggcga aagacctttg agtctatcgg caagcctcta 180
ccgaaccgtc acacattggt aatctcacgc caagctaact accgcgccac tggctgcgta 240
gttgtttcaa cgctgtcgca cgctatcgct ttggcatccg aactcggcaa tgaactctac 300
gtcgcgggcg gagctgagat atacactctg gcactacctc acgcccacgg cgtgtttcta 360
tctgaggtac atcaaacctt cgagggtgac gccttcttcc caatgctcaa cgaaacagaa 420
ttcgagcttg tctcaaccga aaccattcaa gctgtaattc cgtacaccca ctccgtttat 480
gcgcgtcgaa acggctaa 498

<210> 1505
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1505
atttttcgca ggctcaccga gagc 24

<210> 1506
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1506
cggatgagac aacctcgaat tctgctg 27

<210> 1507
<211> 498
<212> DNA
<213> Escherichia coli strain RA33.2

<400> 1507
atgaacccgg aatcggtccg catttatctg gtcgctgcca tgggtgccaa tcgggttatt 60
ggcaatggtc ccgatatccc ctggaaaatc ccaggtgagc agaagatttt tcgcaggctc 120
accgagagca aagtggtcgt tatgggccgc aagacatttg agtccatagg caagccctta 180
ccaaaccgcc acacagtggt gctctcgcgc caagctggtt atagcgctcc tggttgtgca 240
gttgtttcaa cgctgtcaca cgtatcgcca tcgacagccg aacacggcaa agaactctac 300
gtagcgcgcg gagccgaggt atatgcgctg gcgctaccgc atgccaacgg cgtctttcta 360
tctgaggtac atcaaacctt tgagggtgac gccttcttcc cagtgcttaa cgcagcagaa 420
ttcgaggttg tctcatccga aaccattcaa ggcacaatca cgtacacgca ctccgtctat 480
gcgcgtcgta acggctaa 498

<210> 1508
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1508
agaatgtatt ggtatttcca tctatcg 27

<210> 1509

<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1509
caatgtcgat tgttgaaata tgtaaa 26

<210> 1510
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1510
tggagtgcca aaggggaaca at 22

<210> 1511
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1511
cagacacaat cacatgatcc gttatcg 27

<210> 1512
<211> 474
<212> DNA
<213> Escherichia coli strain UI14

<400> 1512
gtgaaactat cactaatggc agcaatttcg aagaatggag ttatcggaaa tggcccagat 60
attccatgga gtgccaaagg ggaacaatta ctcttcaaag cgattaccta taatcagtgg 120
cttttggtag gccgaaagac tttcgagtca atgggggctt tacccaaccg aaaatatgcc 180
gttgtaactc gttcaagctt cacttccagt gatgagaatg tattggtatt tccatctatc 240
gatgaagcgc taaatcatct gaagacgata acggatcatg tgattgtgtc tggtggtggt 300
gaaatataca aaagcctgat cgataaagtt gatactttac atatttcaac aatcgacatt 360
gagccagaag gtgatgtcta ttttccagaa atccccagta gttttaggcc agtttttagc 420
caagacttcg tgtctaacat aaattatagt taccaaatct ggcaaaaggg ttaa 474

<210> 1513
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1513
ttcaagctca aatgaaaacg tcc 23

<210> 1514
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1514
gaaattctca ggcattatag ggaat 25

<210> 1515
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1515
gtggtcagta aaaggtgagc aac 23

<210> 1516
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1516
tctttcaaag cattttctat tgaagg 26

<210> 1517
<211> 474
<212> DNA
<213> Escherichia coli strain EC107

<400> 1517
ttgaaaatat cattgatttc tgcagtgtca gaaaatggcg taatcggtag tggtcctgat 60
atcccgtggt cagtaaaagg tgagcaacta ctctttaaag cgctcacata taatcaatgg 120
ctccttgtcg gaagaaaaac atttgactct atgggtgttc ttccaaatcg caaatatgca 180
gtagtgtcaa agaacggaat ttcaagctca aatgaaaacg tcctagtttt tccttcaata 240
gaaaatgctt tgaaagagct atcaaaagtt acagatcatg tatatgtctc tggcgggggt 300
caaatctata atagccttat tgaaaaagca gatataattc atttgtctac tgttcacgtt 360
gaagtcgaag gtgatatcaa attccctata atgcctgaga atttcaattt ggtttttgaa 420
cagtttttta tgtctaatat aaattataca taccagattt ggaaaaaagg ctaa 474

<210> 1518
<211> 125
<212> DNA
<213> Acinetobacter lwoffi strain CDCF 3697

<400> 1518
ctatgtctca aggccgtgca acatactcta tggaatttgc taaatatgct gaaactccac 60
gtaacgtggc tgaaggcatc atttctaaat ttcagtctgg cggtaaaaaa ggtgacgacg 120
agtaa 125

<210> 1519
<211> 93
<212> DNA
<213> Acinetobacter lwoffii strain CDCF 3697

<400> 1519
tctttcgatt actataagcc caaactaatt catagttaaa aaccaagtgc tcatgcagtg 60
atcctgcatg agtagtttaa aaaggaagat ctc 93

<210> 1520
<211> 1106
<212> DNA
<213> Acinetobacter lwoffii strain CDCF 3697

<400> 1520
atggctaagg ctaagtttga acgtaataag ccacacgtta acgtgggcac aatcggtcac 60
gttgaccatg gtaaaacaac tttaacagct gcaattgcaa ctgtatgtgc gaagaaattc 120
ggtggcgaag cgaaagacta cgctgcaatt gactctgcac cagaagaaaa agcacgtggt 180
attacaatta atacttcaca cgtagaatac gattctccaa ctcgtcacta cgcacacgta 240
gactgcccgg gccacgccga ttatgttaaa aacatgatta ctggtgctgc tcagatggac 300
ggcgcgatcc ttgtatgtgc tgcgactgat ggtccaatgc cacagactcg tgaacacatc 360
cttctttctc gtcaggttgg tgtaccttac attcttgtat tccttaacaa gtgtgacctt 420
gttgatgatg aagaacttct tgagctagtg gaaatggaag ttcgtgaact tctttctact 480
tatgacttcc caggtgatga cactccagtt atccgtggtt cagctcttct tgcacttaac 540
ggtgacgctg gtcagtatgg cgaagaagca gttgttgcgc ttgttgacgc acttgacact 600
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ttctctattt ctggtcgtgg tacagtagta actggccgtg tagaaactgg tattgtgaaa 720
gtaggcgaat cagttgaaat cgttggtatc cgtgatactc aagtaactac agttactggc 780
gtagaaatgt tccgtaaatt gcttgacgaa ggtcgtgcgg gcgagaactg tggtgttctt 840
ctacgtggta ctaagcgtga agacgtacaa cgtggtcaag tacttgctaa accaggtgca 900
atcaagccac acactaaatt cgatgcagaa gtatacgtac tttctaaaga agaaggtggt 960
cgtcacactc cattccttaa cggttaccgt ccacagttct acttccgtac aactgacgta 1020
actggcgcga tcaaattaca agatggcgtt gaaatggtta tgcctggtga caacgtagaa 1080
atgtcagtag aattaatcca cccaat 1106

<210> 1521
<211> 100
<212> DNA
<213> Haemophilus influenzae ATCC 9006

<400> 1521
acaaactcaa ggtcgtgcat cttactcaat ggaaccgtta aaatatgctg aagctccaac 60
aagtgttgcg gctgcagtaa ttgaagcgcg taaaaaataa 100

<210> 1522
<211> 64
<212> DNA
<213> Haemophilus influenzae ATCC 9006

<400> 1522
tttttgtaaa ccagcggtgt aaaatatgat tgttttatac cgcacttctt aggaaacatt 60
agaa 64

<210> 1523
<211> 1098
<212> DNA
<213> Haemophilus influenzae ATCC 9006

<400> 1523
atgtctaaag aaaaatttga acgtacaaaa ccgcacgtaa acgtgggtac aatcggccac 60
gttgaccacg gtaaaacaac tttaacagca gcaattacaa ccgtattagc aaaacactac 120
ggtggtgcag cgcgtgcatt tgaccaaatc gataacgcgc cagaagaaaa agcgcgtggt 180

attaccatca acacttcaca tgttgaatac gatacaccaa ctcgccacta tgcacacgta 240
gactgtccag gacacgccga ctatgttaaa aacatgatta ccggtgcggc gcaaatggat 300
ggtgctattt tagtagtagc agcaacagat ggtcctatgc cacaaactcg tgaacatatc 360
ttattaggtc gccaagtagg tgttccatac atcatcgtat tcttaaacaa atgcgacatg 420
gtagatgatg aagagttatt agaattagta gaaatggaag tgcgtgaact tctatctcaa 480
tatgacttcc caggtgacga tacaccaatc gtacgtggtt cagcattaca agcattgaac 540
ggcgtagcag aatgggaaga aaaaatcctt gaattagctg gtcacttaga tacttacatc 600
ccagaaccag aacgtgcgat tgaccaaccg ttccttcttc caattgaaga cgtattctca 660
atttcaggtc gtggtacagt agtaactggt cgtgtagaac gtggtatcat ccgtactggt 720
gatgaagtag aaatcgtcgg tatcaaagat acagcgaaaa ctactgtaac aggtgttgaa 780
atgttccgta aattacttga cgaaggtcgt gcaggtgaaa acatcggtgc attattacgt 840
ggtaccaaac gtgaagaaat cgaacgtggt caagtattag cgaaaccagg ttcaatcaca 900
ccacacactg attttgaatc agaagtatac gtattatcaa aagatgaagg tggtcgtcat 960
actccattct tcaaaggtta ccgtccacaa ttctatttcc gtacaacaga cgtaactggt 1020
acaattgaat taccagaagg cgtggaaatg gtaatgccag gcgataacat caagatgaca 1080
gtaagcttaa tccaccca 1098

<210> 1524
<211> 77
<212> DNA
<213> Proteus mirabilis ATCC 25933

<400> 1524
caatggagtt cttgaagtac aacgaagcgc ctagcaacgt cgctcaggct attatcgaag 60
ctcgtaaagc gaaataa 77

<210> 1525
<211> 67
<212> DNA
<213> Proteus mirabilis ATCC 25933

<400> 1525
gatcctttcg agttcaattt agtttacgct ccctctgtga gagggagcga tattaaggaa 60
tatagtc 67

<210> 1526
<211> 1112
<212> DNA
<213> Proteus mirabilis ATCC 25933

<400> 1526
gtgtctaaag aaaaatttga acgttcaaaa ccgcacgtta acgttggtac tatcggccac 60
gttgaccacg gtaaaacaac tctgactgct gcaatcacta cagttttagc taaaacttac 120
ggtggtgctg ctcgtgcatt cgaccaaatc gataatgcac cagaagaaaa agcgcgtggt 180
atcaccatct ctacttcaca cgtagaatac gatactccaa ctcgccacta cgcacacgta 240
gactgcccag gtcacgccga ctatgttaaa aacatgatca ctggtgctgc gcaaatggac 300
ggcgctattc tggtagtagc agcaactgat ggtccaatgc cacaaactcg tgagcacatc 360
ctgttaggtc gtcaggttgg tgttccttac atcatcgtat tcctgaacaa atgtgacatg 420
gtagatgatg aagagctgtt agaattagtt gaaatggaag ttcgtgaact tctgtctcaa 480
tacgatttcc caggtgatga cactccagta atccgtggtt cagcgctgaa agcactggaa 540
ggcgaagcag agtgggaagc aaaaattgtt gaattagcag aagcactgga ttcttatatc 600
ccagagccag agcgtgcaat tgacaaacca ttcctgttac caatcgaaga tgtattctca 660
atctcaggcc gtggtacagt agttactggt cgtgtagagc gtggtatcat caaagtaggt 720
gatgaagttg agattgttgg tatcaaagaa accaccaaaa caacttgtac tggcgttgaa 780
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ggtacaaaac gtgaagaaat cgaacgtgga caagtactgg caaaaccagg ctcaatcaac 900
ccacacaaca aatttgaatc agaagtttat attctgagca aagatgaagg tggtcgtcac 960
acaccattct tcaaaggcta ccgtccacag ttctacttcc gtacaactga cgtaactggt 1020
actatcgaat taccagaagg cgtagaaatg gtaatgccag gcgacaacgt gaacatgatc 1080
gttgaactga tccacccaat cgcaatggac ga 1112

<210> 1527

<211> 800
<212> DNA
<213> Campylobacter curvus ATCC 35224

<400> 1527
atcaacgaag ctatcgaggt ttattttgag gttgagggca agaaaaatag attgatcctg 60
gaggtcgcgg ctcacttggg tgataaccgc gtcagaacga tcgctatgga tatgagtgag 120
gggcttactc gcgggcttga agctaccgct cttggtgcgc ctattagtgt gccggttggc 180
gagaaggttt tgggaagaat ttttaacgtc gtcggcgatc tcatcgacga gggcgagggc 240
gtaaattttg ataaacattg gtctatccac cgcgatccgc caccatttga agaacaaagc 300
acgaaaagtg aaatttttga aaccggtata aaggttgtgg atcttcttgc gccttacgca 360
aagggcggta aggtcggact atttggcggt gcaggtgtcg gtaaaacggt catcatcatg 420
gagctcatcc acaatgtcgc cttcaaacac agcggatact ctgtatttgc aggtgttggc 480
gagaggacgc gcgaaggaaa cgacctttat cacgagatga aagaaagtaa cgttttggat 540
aaagtcgcct tgtgctacgg acagatgaac gagccgccag gggcgagaaa tcgtatcgca 600
ctgactggtc taacgatggc tgagtatttc cgcgatgaga tgggacttga tgtgcttatg 660
tttatcgaca acatcttccg cttctctcaa tctggtgcag agatgtcggc actcctcgga 720
cgtatcccat cagccgttgg ttaccagccg acgctggcaa gcgagatggg taaatttcaa 780
gaaaggatca catcgactaa 800

<210> 1528
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1528
aacttgagcg attttcggat accctg 26

<210> 1529
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1529
ttgccgatga ataaccgcc gact 24

<210> 1530
<211> 1035
<212> DNA
<213> Escherichia coli

<400> 1530
atgcgattgg tttggaaatg tggggcgatt caggcatccc ggttatctga atggctcaac 60
tcaacagccg gtgctcatga acttgagcga ttttcggata ccctgacctt ttctgtgtat 120
ggctcagtgc tgatctggct gaaatcatat ctccgcgaat caggaagaaa actgcagtta 180
gtcggaatcg ccttacccaa caccctgaac ccaagggacg acctagcgca attggccgaa 240
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gcgtccattg atggccagtc ggcggttatt tcatcggcaa aatgggggga gctagaaacg 360
gctcggcagg agaaagctat ctcaggggta accagattga agctccgctt ggcgtcgctt 420
gccccgtcc tgaaaaaaca cgtcaacagc gatttgttcc gaaaagcctc tgatcgaata 480
gagtcgatag agtatacgtt ggaaaccttg cgtataatga aaactttctt cgatggtacc 540
tctcttgagg gagatacttc cgtacgtgac tcgtatatgg cgggcgtagt agatggaatg 600
gttcgagcga atccggatgt gaagataatt ctgctggcgc acaacaatca tctacaaaaa 660
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ttcccatcgc caaaaagtcc tcttggattc tctgttgtga ccacgcctgc cgatgcaatc 840
cgtgaggata gtatggaaca gtatgtcatc gacgcctgtg gtacggagaa ttcatgtctg 900
acattgacag atgcccccat ggaagcaaag cgaatgcggt ctcaaagcgc ctctgtagaa 960
acgaaattga gcgaggcatt tgatgccatc gtctgtgtta caagcgccgg caaggacagc 1020
ctggttgccc tatag 1035

<210> 1531
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1531
tctttttgtt acgacatacg ctttt 25

<210> 1532
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1532
agtgcttctt tatccgctgt tcta 24

<210> 1533
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1533
cagcggataa agaagcacta cacatt 26

<210> 1534
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1534
cctcctgaaa taaagcccga cat 23

<210> 1535
<211> 1260
<212> DNA
<213> Escherichia coli

<220>
<221> misc_feature

<222> (41)..(41)
<223> n represents any nucleotide

<220>
<221> misc_feature
<222> (47)..(47)
<223> n represents any nucleotide

<220>
<221> misc_feature
<222> (93)..(93)
<223> n represents any nucleotide

<220>
<221> misc_feature
<222> (1170)..(1170)
<223> n represents any nucleotide

<400> 1535
atgaggttcg aagaatgggt caaagataag catattcctt ncaaacngaa tcaccctgat 60
gataattacg atgattttaa gccattaaga aanataattg gagatacccg agttgtagca 120
ttaggtgaaa attctcattt cataaaagaa ttctttttgt tacgacatac gcttttgcgt 180
ttttttatcg aagatctagg ttttactacg tttgcttttg aatttggttt tgctgagggt 240
caaatcatca ataactggat acatggacaa ggaactgacg atgaaatagg cagattctta 300
aaacacttct attatccaga agagctcaaa accacatttc tatggctaag ggagtacaat 360
aaagcagcaa aagaaaaaat cacatttctt ggcattgata tacccagaaa tggaggttca 420
tacttaccaa atatggagat agtgcatgac ttttttagaa cagcggataa agaagcacta 480
cacattatcg atgatgcatt taatattgca aaaaagattg attacttctc cacatcacag 540
gcagccttaa atttacatga gctaacagat tctgagaaat gccgtttaac tagccaatta 600
gctcgagtaa aagttcgcct tgaagctatg gctccaattc acattgaaaa atatgggatt 660
gataaatatg agacaattct gcattatgcc aacggtatga tatacttgga ctataacatt 720
caagctatgt cgggctttat ttcaggaggc ggaatgcagg gcgatatggg tgcaaaagac 780
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atagtagtag cacataatgc acatattcaa aaaacaccca ttctgtatga tggatttcta 900
agttgcctac caatgggcca aagacttaaa aatgccattg gtgatgatta tatgtcttta 960
ggtattactt cttatagtgg gcatactgca gccctctatc cggaagttga tacaaaatat 1020
ggttttcgag ttgataactt ccaactgcag gaaccaaatg aaggttctgt cgagaaagct 1080
atttctggtt gtggagttac taattctttt gtctttttta gaaatattcc tgaagattta 1140
caatccatcc cgaacatgat tcgatttgan tctatttaca tgaaagcaga actcgagaaa 1200
gctttcgatg gaatatttca aattgaaaag tcatctgtat ctgaggtcgt ttatgaataa 1260

<210> 1536
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1536
agatgtatta actggaaaac aacaa 25

<210> 1537
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1537

ctttgtaatt agtttctgaa aacca 25

<210> 1538
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1538
ttagaagata taggatacaa aatagaag 28

<210> 1539
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1539
gaatgaaaaa gaagttgagc tt 22

<210> 1540
<211> 486
<212> DNA
<213> Staphylococcus haemolyticus

<400> 1540
atgaaaaata ataatgtaac agaaaaagaa ttattttata ttttagattt atttgaacac 60
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caaagagaac acagagatat agatatagat tttgacgctc aacacactca aaaagttata 180
caaaaattag aagatatagg atacaaaata gaagttcatt ggatgccttc acgtatggaa 240
cttaagcatg aagaatatgg gtatttagat attcatccta taaatctaaa tgatgatgga 300
tcaattaccc aagcaaaccc agaaggtggt aattatgttt tccaaaatga ctggttttca 360
gaaactaatt acaaagatcg aaaaatacca tgtatttcaa aagaagctca acttcttttt 420
cattctggtt atgatttaac agaaacagac cattttgata taaaaaattt aaaatcaata 480
acataa 486

<210> 1541
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1541
tgataatctt atacgtgggg aattt 25

<210> 1542
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:

Oligonucleotide

<400> 1542
ataattttct aattgccctg tttcat 26

<210> 1543
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1543
gggcaattag aaaattattt atcaga 26

<210> 1544
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1544
ttttactcat gtttagccaa ttatca 26

<210> 1545
<211> 804
<212> DNA
<213> Enterococcus faecium

<400> 1545
atgttaaaac aaaaagaatt aattgcaaac gttaagaatc ttactgagtc agatgaacga 60
attacagctt gtatgatgta tggatcgttt accaaaggag aaggtgacca atactctgat 120
atagagttct atatattttt gaaacatagt ataacctcga actttgattc atccaactgg 180
ttgtttgacg tagctccgta cttgatgctt tataaaaatg agtacggaac agaggtagtt 240
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cgattagata aggtagaatt atttgaagcc tataaaaatt ctttgctatt agttatggat 720
ttgcaaagtc accttattga acaatacaac ttaaaagtta cacatgacat tttagaaaga 780
ttgttgaatt acattagtga atag 804

<210> 1546
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1546
caagaaggaa tggctgtact ac 22

<210> 1547
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1547
taattcccaa ataaccctaa taataga 27

<210> 1548
<211> 1218
<212> DNA
<213> Streptococcus pyogenes

<400> 1548
atggaaaaat acaacaattg gaaacttaag ttttatacaa tatgggcagg gcaagcagta 60
tcattaatca ctagtgccat cttgcaaatg gcgattattt tttaccttac agaaaaaact 120
ggatccgcga tggtcttgtc tatggcttca ctattaggtt ttttacccta tgcggtcttt 180
ggacctgcaa ttggtgtgct agtggatcgt catgatagga agaagataat gattggtgct 240
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ggctatagtc agtctttgca gtctataagc tatattgtta gtccggcggt tgcagcactc 480
ttatactccg tttgggaact aaatgctatt attgccatcg atgtattggg tgctgtgatt 540
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gacccaaatt tcataagaga aatgcaagaa ggaatggctg tactacggca aaataaagga 660
ttatttgctt tattactcgt tggaacatta tatatgtttg tttatatgcc aattaatgca 720
ctattccctt taattagcat ggattacttt aatggaacac ctgtgcatat ttctattacg 780
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ctatcaggta ctttaattat ttgcattgca atagtttgcc caatgataaa tgagattaga 1200
aaattagatt taaaataa 1218

<210> 1549
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1549
gcttattatt aggaagatta gggggc 26

<210> 1550
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1550
tagcaagtga catgatactt ccga 24

<210> 1551
<211> 1218
<212> DNA
<213> Streptococcus pneumoniae

<400> 1551
atggaaaaat acaacaattg gaaacgaaaa ttttatgcaa tatgggcagg gcaagcagta 60
tcattaatca ctagtgccat cctgcaaatg gcgattattt tttaccttac agaaaaaaca 120
ggatctgcga tggtcttgtc tatggcttca ttagtaggtt ttttacccta tgcgattttg 180
ggacctgcca ttggtgtgct agtggatcgt catgatagga agaagataat gattggtgcc 240
gatttaatta tcgcagcagc tggtgcagtg cttgctattg ttgcattctg tatggagcta 300
cctgtctgga tgattatgat agtattgttt atccgtagca ttggaacagc ttttcatacc 360
ccagcactca atgcggttac accactttta gtaccagaag aacagctaac gaaatgcgca 420
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ctatcaggta ttttaattat tggcattgct atagtttgcc aaatgataac tgaggttaga 1200
aaattagatt taaaataa 1218

<210> 1552
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1552
ggcaagcagt atcattaatc acta 24

<210> 1553
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1553
caatgctacg gataaacaat actatc 26

<210> 1554
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1554

agaaaattaa gcctgaatat ttaggac 27

<210> 1555
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1555
tagtaaaaac caatgattta caccg 25

<210> 1556
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1556
actgtacgca cttgcagccc gacat 25

<210> 1557
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1557
gaacggcagg cgattcttga gcat 24

<210> 1558
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1558
gtggtggtgc atggcgatct ct 22

<210> 1559
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1559
gccgcagcga ggtactcttc gtta 24

<210> 1560
<211> 906
<212> DNA
<213> Escherichia coli

<400> 1560
atgaccgtag tcacgaccgc cgatacctcc caactgtacg cacttgcagc ccgacatggg 60
ctcaagctcc atggcccgct gactgtcaat gagcttgggc tcgactatag gatcgtgatc 120
gccaccgtcg acgatggacg tcggtgggtg ctgcgcatcc cgcgccgagc cgaggtaagc 180
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gaagaggggc tcgcgaagct cctcctcacg tatgaagcgg ccggtggccg ggtgtggccg 780
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gccctcgact cgggtaacga agagtacctc gctgcggcga aggcgcagct cgccgcagcg 900
gaatga 906

<210> 1561
<211> 1048
<212> DNA
<213> Candida albicans ATCC 18804

<400> 1561
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gccaacttct tggattaygg ttctattgat agagctccag aagaaagagc tagaggtatc 120
actatttcca ctgcccacgt tgaatacgaa accaagaaca gacactatgc ccacgttgat 180
tgtccaggac acgctgatta tatcaaaaat atgattactg gtgccgctca aatggatggt 240
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ggttttgatg gtgacaacac tccagttatt atgggatctg ctttaatggc tttggaagac 480
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ggtgaagaaa tcgaaattgt tggtggtttt gacaaacctt acaagactac tgttaccggt 720
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cgttccactc catttggtga aggttacaag cctcaatgct tcttcagaac taacgatgtc 960
actaccacat tttcattccc agaaggagaa ggtgttgacc attctcaaat gatcatgcca 1020
ggtgacaaca ttgaaatggt tggtgaat 1048

<210> 1562
<211> 1074
<212> DNA
<213> Candida dubliniensis strain NCPF 3949

<400> 1562
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tgccaacttt ttggattacg gttccattga tagagctcca gaagaaagag ccagaggtat 120
cactatttcc actgcccacg ttgaatacga aaccaagaac agacactatg cccacgttga 180
ttgtccagga cacgctgatt atatcaaaaa catgattact ggtgctgctc aaatggatgg 240
tgctatcatt gttgttgctg ctactgacgg tcaaatgcca caaaccagag aacatttatt 300
gttggcaaga caagttggtg ttcaagactt ggttgtcttt gtcaacaaag ttgatactat 360
tgatgaccct gagatgttgg aattagtcga aatggaaatg agagaattgt tgtccaccta 420
cggttttgat ggtgacaaca ctcctgttat tatgggatct gctttaatgg ccttggaagg 480
caaaaaacca gaaattggta aggaagctat tttgagattg ttagatgctg tcgatgaaca 540

cattccaact ccatcaagag acttggaaca accatttttg ttgccagttg aagacgtgtt 600
ctccatctct ggtagaggaa ctgttgtcac cggtagagtt gaaagaggtg tcttgaagaa 660
gggtgaagaa atcgaaattg ttggtggttt tgacaaacca tacaagacca ctgttactgg 720
tattgaaatg ttcaaaaagg aattagattc tgctatagct ggtgacaact gtggtgtttt 780
gttgagaggt gttaaaagag atgaaatcaa gagaggtatg gttttggcca agccaggtac 840
tgctacttct cacaagaaat ttttagcatc tttgtatatt ttgacttcag aagaaggtgg 900
tcgttccact ccatttggag aaggttacaa gcctcaatgt ttcttcagaa ctaatgacgt 960
cactaccaca ttttcattcc cagaaggaga aggtgttgac cactcccaaa tggtcatgcc 1020
aggtgataac attgaaatgg ttggtgaatt gatcaaatca tgtccattgg aagt 1074

<210> 1563
<211> 1033
<212> DNA
<213> Candida famata ATCC 62894

<400> 1563
gatcacggga agactacttt gaccgctgcc atcaccaaag ttttagccga aaaaggtggt 60
gctaacttct tggactacgg ttctatcgat aaagctccag aagaaagagc cagaggtatt 120
actatttctg ctgcccatgt tgaatacgaa actgacaaga gacactatgc ccatgttgat 180
tgtccaggtc acgcagatta tatcaagaat atgattactg gtgctgctca aatggatggt 240
gccattattg ttgttgctgc ttccgatggt caaatgcctc aaaccagaga acatttgtta 300
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gacgatccag aaatgttgga attggttgaa atggaaatga gagatttgtt aactacttac 420
ggttttgatg gtgataacac cccagttatc atgggatctg ctttgtgtgc tttggaatcc 480
agagaaccag aaattggtca aaaagccatt gaaaaattgt tagatgccgt cgatgaatac 540
attccaaccc cagtcagaga cttggaacaa ccattcttga tgccagttga agaagttttc 600
tccatttccg gtagaggtac cgttgttgct ggtagagtcg aaagaggtac cttgaagaag 660
ggtgaagaaa tcgaaattgt tggtggtttc gacaagccat tcaaggccac tgttactggt 720
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aacgttgaaa tgc 1033

<210> 1564
<211> 1056
<212> DNA
<213> Candida glabrata ATCC 66032

<400> 1564
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gctgatttct tggactactc ttccattgac aaagctccag aggagagagc ccgtggtatc 120
actatctcta ctgcccatgt cgagtacgag accgccaaga gacattactc ccacgtcgac 180
tgtccaggtc acgccgacta catcaagaac atgattactg gtgctgccca aatggacggt 240
gctatcatcg ttgtcgccgc caccgatggt caaatgccac aaactagaga gcatttgctg 300
ttggccagac aagtcggtgt tcaacgtatc gttgtctttg tcaacaaggt ggacaccatc 360
gatgaccctg aaatgttgga attagtggaa atggaaatga gagaattgtt gaacgaatac 420
ggttttgacg gtgacaatgc ccctatcatt atgggttccg ctttgtgtgc cctagaaggt 480
cgtcaacctg aaattggtga gcaagctatc atgaaactat tggacgctgt tgatgaatac 540
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ggtgaagaag ttgaaattgt tggtcacaac actaccccat tgaagaccac cgttactggt 720
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agacattctg gtttcggtga aaactacaga cctcagatgt ttatcagaac cgcagatgtc 960
actgttgtga tgaagttccc agaatctgtg gaagaccact ctatgcaagt tatgccaggt 1020
gacaacgtcg aaatggtctg tgaactagtc caccca 1056

<210> 1565
<211> 1061
<212> DNA

<213> Candida guilliermondii ATCC 6260

<400> 1565
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gctaatttct tggattacgg ctccatcgac agagctccag aagagagagc cagaggtatc 120
accatttcca ctgcccatgt tgagtaccaa actgataaga gacattatgc ccacgttgac 180
tgtccaggtc acgccgatta cattaagaat atgattactg gtgccgccca gatggacggt 240
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gacgatcccg agatgttgga attggtcgag atggaaatga gagaattgtt gagtcagtac 420
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cgtcactctc cttttggtga gaactacaag cctcaattgt tcatcagaac tactgacgtt 960
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ggtgacaatg ttgagatgga aattgagctt gtgagaaaga c 1061

<210> 1566
<211> 1073
<212> DNA
<213> Candida haemulonii ATCC 22991

<400> 1566
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gctagcttct tggactatgg ttccattgac agagccccag aggagagagc tagaggtatt 120
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<212> DNA
<213> Candida kefyr ATCC 28838

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<211> 1062
<212> DNA
<213> Candida lusitaniae ATCC 66035

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<210> 1569
<211> 990
<212> DNA
<213> Candida sphaerica ATCC 2504

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<210> 1570
<211> 1184
<212> DNA
<213> Candida tropicalis ATCC 750

<400> 1570

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<210> 1571
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<212> DNA
<213> Candida viswanathii ATCC 28269

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<210> 1572
<211> 817
<212> DNA
<213> Alcaligenes faecalis subsp. faecalis ATCC 8750

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<210> 1573
<211> 796
<212> DNA
<213> Prevotella buccalis ATCC 35310

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<210> 1574
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<212> DNA
<213> Succinivibrio dextrinosolvens ATCC 19716

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<210> 1575
<211> 803
<212> DNA
<213> Tetragenococcus halophilus ATCC 33315

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<211> 805
<212> DNA
<213> Campylobacter jejuni subsp. jejuni ATCC 33292

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<210> 1577
<211> 809
<212> DNA
<213> Campylobacter rectus ATCC 33238

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<210> 1578
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<212> DNA
<213> Enterococcus casseliflavus ATCC 25788

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<210> 1579
<211> 1662
<212> DNA
<213> Enterococcus gallinarum ATCC 49573

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aatcctaaaa ctgacgaaga aactgatcgt cctgctgacg atgaagcgcc ttttgcttca 660
ctagcattta aagtaatgac tgacccattc gtaggtcgtt tgacattctt ccgtgtgtat 720
tcaggtgtct tgaactctgg atcatatgtc ttgaatgctt caaaagacaa acgcgaacgt 780
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gaagaagatc cttcattccg tgtagaamca aacgctgaaa ctggcgaaac tgttatcgca 1080
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gccgaaggta aatttgtacg tcagtctggt ggtaaaggtc aatacggtca cgtatggatc 1260
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gcagcgaaga aagctaatcc agtgattctt gaaccaatga tgaaagttgt tatcactgtt 1560
cctgaagatt acttaggtga tattatggga cacgtaactg ctcgtcgtgg acgtgttgaa 1620
ggtatggaag cgcatggtaa ctcacaaatc gttaacgcga tt 1662

<210> 1580
<211> 1669
<212> DNA
<213> Streptococcus mitis ATCC 49456

<400> 1580
caatcgaagt acaacgttct cttcgtgtat tggatggtgc tgttaccgtt cttgactcac 60
aatcaggtgt tgagcctcaa actgaaacag tttggcgtca agcaactgag tatggagttc 120
cacgtatcgt atttgccaac aaaatggaca aaatcggtgc tgacttcctt tactctgtaa 180
gcacacttca cgatcgtctt caagcaaatg cacacccaat ccaattgcca atcggttctg 240
aagatgactt ccgtggtatc atcgacttga tcaagatgaa agctgaaatc tatactaacg 300
accttggtac agatatcctt gaagaagaca tcccagctga ataccttgac caagctcaag 360

aataccgtga aaaattgatc gaagcagttg ctgaaactga cgaagaattg atgatgaaat 420
acctcgaagg tgaagaaatc actaacgaag aattgaaagc tggtatccgt aaagcgacta 480
tcaacgttga attcttccca gtattgtgtg gctctgcctt caagaacaaa ggtgttcaat 540
tgatgcttga tgcggttatt gactaccttc caagcccact tgacatccca gcgatcaaag 600
gtatcaaccc agatwcagat gaagaagaaa ctcgtccagc atctgatgaa gagccatttg 660
cagctcttgc cttcaagatc atgacagacc cattcgtaag tcgtttgaca ttcttccgtg 720
tttactcarg tgktcttcaa tcaggttcat acgtattgaa cacttctaaa ggkaaacgtg 780
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ctgttccaga agaaaacctt ggtgatgtta tgggtcacgt aactgctcgt cgtggacgtg 1620
tagatggtat ggaagcacwc ggtaacagcc aaatcgttcg tgcttacgt 1669

<210> 1581
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1581
aattggggac tacacctatt atgatg 26

<210> 1582
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1582
ggcaaatcag tcagttcagg agt 23

<210> 1583
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1583
cgattggcaa caatacactc ctg 23

<210> 1584
<211> 26
<212> DNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1584
tcacctattt ttacgcctgg taggac 26

<210> 1585
<211> 645
<212> DNA
<213> Enterococcus faecium

<400> 1585
atgactatac ctgacgcaaa tgcaatctat cctaactcag ccatcaaaga ggttgtcttt 60
atcaagaacg tgatcaaaag tcccaatatt gaaattgggg actacaccta ttatgatgac 120
ccagtaaatc ccaccgattt tgagaaacac gttacccatc actatgaatt tctaggcgac 180
aaattaatca tcggtaaatt ttgttctatc gccagtggca ttgaatttat catgaacggt 240
gccaaccacg taatgaaagg tatttcgact tatccattta atattttagg tggcgattgg 300
caacaataca ctcctgaact gactgatttg ccgttgaaag gtgatactgt agtcggaaat 360
gacgtgtggt ttgggcaaaa tgtgaccgtc ctaccaggcg taaaaatagg tgacggtgcc 420
attatcggag caaatagtgt tgtaacaaaa gacgtcgctc catatacaat tgtcggtggc 480
aatccaattc aactcatcgg accaagattt gaaccggaag ttattcaagc attagaaaat 540
ctggcatggt ggaataaaga tattgaatgg ataactgcta atgttcctaa actaatgcaa 600
acaacaccca cacttgaatt gataaacagt ttaatggaaa aataa 645

<210> 1586
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1586
attcccacaa tctttttttat caataa 26

<210> 1587
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1587
cattgttcag attcggtaaa gttc 24

<210> 1588
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1588
gtttttgaag ttaaatagtg ttctt 25

<210> 1589
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1589
cttccatttg tactttccct a 21

<210> 1590
<211> 1920
<212> DNA
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Cloning vector
pFW16

<400> 1590
atgaaaatta ttaatattgg agttttagct catgttgatg caggaaaaac taccttaaca 60
gaaagcttat tatataacag tggagcgatt acagaattag gaagcgtgga caaaggtaca 120
acgaggacgg ataatacgct tttagaacgt cagagaggaa ttacaattca gacaggaata 180
acctcttttc agtgggaaaa tacgaaggtg aacatcatag acacgccagg acatatggat 240
ttcttagcag aagtatatcg ttcattatca gttttagatg gggcaattct actgatttct 300
gcaaaagatg gcgtacaagc acaaactcgt atattatttc atgcacttag gaaaatgggg 360
attcccacaa tctttttttat caataagatt gaccaaaatg gaattgattt atcaacggtt 420
tatcaggata ttaaagagaa actttctgcc gaaattgtaa tcaaacagaa ggtagaactg 480
tatcctaatg tgtgtgtgac gaactttacc gaatctgaac aatgggatac ggtaatagag 540
ggaaacgatg acctttttaga gaaatatatg tccggtaaat cattagaagc attggaactc 600
gaacaagagg aaagcataag atttcagaat tgttctctgt tccctcttta tcatggaagt 660
gcaaaaagta atatagggat tgataacctt atagaagtta ttactaataa attttattca 720
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gaattatgta agattgatag agcttattct ggagaaattg ttattttgca aaatgagttt 960
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tattgtgcga acatcgtaga cactcaattg aaaaataatg aggtcattct tagtggagaa 1740
atccctgctc ggtgtattca agaatatcgt agtgatttaa ctttctttac aaatggacgt 1800
agtgtttgtt taacagagtt aaaagggtac catgttacta ccggtgaacc tgtttgccag 1860
ccccgtcgtc caaatagtcg gatagataaa gtacgatata tgttcaataa aataacttag 1920

<210> 1591
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1591
atgaggtaat agaacggatt 20

<210> 1592
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1592
cagtatttca gtaagcgtaa a 21

<210> 1593
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<220>
<221> misc_feature
<222> (29)..(29)
<223> n represents a modified base

<220>
<221> modified_base
<222> (29)..(29)
<223> i

<400> 1593
ccgagcgatt taccggatac ttggctgcnc gctcgg 36

<210> 1594
<211> 1032
<212> DNA
<213> Enterococcus faecium strain N97-330

<400> 1594
atgtttagaa ttaaagttgc agttctgttt gggggctgtt cagaggaaca taatgtttcg 60
ataaaatctg cgatggagat tgccgcaaac atagatacaa aaaagtatca gccttattat 120
attggaatca caaaatccgg cgtttggaaa atgtgtgaaa aaccttgttt ggagtgggaa 180
caatatgcgg gggatccggt tgtttttttca ccggacagaa gtacgcatgg tctgctgata 240
caaaaagaca ctgggtatga aatccagcct gtggatgtgg gattaccgat gattcatggc 300
aagtttggcg aggatggctc catacaaggc ttgcttgaat tgtcaggcat tccgtatgtg 360
ggatgcgata ttcaaagctc cgtgacctgc atggataagg cgcttgcata taccgttgtg 420
aaaaatgcgg gtatcgctgt gcctgggttc cggatccttc aggaggggga tcgcctggaa 480
acagaggatt tcgtatatcc cgtttttgta aagcctgccc gttccggctc atcctttggc 540
gtaaacaagg tatgcaaggc agaagaactg caggcagcaa tcgaagatgc aagaaaatat 600
gacagcaaga ttttgattga agaggccgtt accgggagtg aggtaggctg cgccatactg 660
ggaaacggaa atgatctcat ggctggcgag gtggatcaga ttgagctgag acacggcttt 720
tttaagattc atcaggaagc acagccggag aaaggatctg aaaatgcagt catccgagtt 780
ccagccgcct taccggatga ggtaatagaa cggattcaga aaacagcaat gaagatttac 840
cggatacttg gctgcagagg attggcccgc attgacctgt ttttgcggga ggacggctgc 900
attgtgttga atgaagtgaa taccatgccg ggttttactt cctacagccg ttatccccgc 960
atgatgacag cagccggttt tacgcttact gaaatactgg atcgcttgat tgaactttca 1020
cttaggaggt aa 1032

<210> 1595
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1595
aaataatgct ccatcaattt gctga 25

<210> 1596
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1596
atagtcgaaa aagccatcca caag 24

<210> 1597
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1597
gatgaatttg cgaaaataca tgga 24

<210> 1598
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1598
cagccaattt ctacccctttt cac 23

<210> 1599
<211> 604
<212> DNA
<213> Enterococcus faecalis strain BM4405

<400> 1599
cagggagtat ttgagttatt agatattcca tatgtaggtt gtggtatcgg agctgcagca 60
atttccatga ataaaataat gctccatcaa tttgctgaaa tagttggtgt aaaaagcact 120
cctagtatga ttatagaaaa gggacaagac ctacaaaaag tcgatgaatt tgcgaaaata 180
catggatttc ctttatatat caaaccgaat gaggcaggct catcaaaagg aattagcaag 240
gtagaacaaa aaagtgattt atataaagca atagacgaag cttcaaaata tgatagccgt 300
attttaattc aaaaggaagt gaaaggggta gaaattggct gtgggatttt agggaatgaa 360
caattggtcg ttggagaatg tgatcaaatt agtcttgtgg atggcttttt cgactatgaa 420
gagaaataca atttagtaac agcagaaatt ttgttaccag ctaaactatc aatagacaaa 480

aaagaagaca tccagataaa agcaaaaaaa ctatacagac tattagggtg caaaggatta 540
gcgagaatcg actttttctt aacggatgac ggagaaattt tattaaatga gatcaacacc 600
ctcc 604

<210> 1600
<211> 805
<212> DNA
<213> Campylobacter jejuni subsp. doylei ATCC 49349

<400> 1600
acctcaaatt aatgaagcaa ttgttgtaaa ttttgaaagc gaaggaaaaa aacataaact 60
tgttttagaa gtagcagctc atttaggaga taatagagtt agaactattg ctatggatat 120
gacagatggt ttggtaaggg gcttaaaagc tgaggcttta ggtgctccta ttagtgttcc 180
tgttggtgag aaagttttag gaagaatttt caatgttact ggagatttga tcgatgaagg 240
tgaagaaatt ccttttgata aaaaatgggc aattcataga gatccgccag cttttgaaga 300
tcaaagcaca aaaagtgaga tttttgaaac agggattaaa gttgtagatt tacttgctcc 360
ttatgcaaaa ggtggtaaag taggtctttt tggtggtgca ggtgttggta aaactgttat 420
tattatggag cttattcaca atgttgcatt taagcatagc ggctattctg tatttgcagg 480
tgtgggtgag agaactcgtg aaggaaatga cctttataat gaaatgaaag aaagtaatgt 540
tttagacaaa gttgctctat gttatggaca aatgaatgaa ccaccaggag caagaaatcg 600
tattgcttta acaggtttaa caatggctga gtattttaga gatgaaatgg gtcttgatgt 660
gcttatgttt attgataata tctttagatt ttcacaatca ggttctgaaa tgtcagcact 720
tttaggaaga attccatcag ctgtgggtta tcaaccaacc ctagcaagtg aaatgggtaa 780
attccaagaa agaattactt caact 805

<210> 1601
<211> 826
<212> DNA
<213> Enterococcus sulfureus ATCC 49903

<400> 1601
ctccttacca gatatcaaca atgcgctggt tgtatataaa aatgatgcca ataaaacaaa 60
agttgtttta gaagcagcgt tagaattagg tgacggaatc attcgtgcga ttgcaatgga 120
atcgactgat ggattgcaac gtgggatgga agttgtcgat atgggagaat ctatttctgt 180
accagttgga acagaaactt taggacgtgt gtttaatgta ttaggagata cgattgactt 240
agaagctcct tttcctaaag atgcaccgcg tagtggaatc cataaaaaag cccctaattt 300
tgatgaatta agtacaagca cagaaattct agaaacaggg atcaaagtca tcgatctatt 360
agccccttat ttaaaaggtg gtaaagttgg attgtttggg ggagccggtg taggaaaaac 420
ggtattgatt caagagttga ttcacaatat cgcacaagaa cacggtggga tttcggtctt 480
tactggtgtt ggtgagcgta cacgtgaagg aaacgatttg tattatgaaa tgaaagattc 540
aggagtcatt gaaaaaacag cgatggtgtt tggacaaatg aatgagccac ctggtgcacg 600
gatgcgtgta gccttgactg gattaacgat tgctgaatat ttccgtgatg ttgaaggaca 660
ggatgtactg ttgtttatcg acaatatctt ccgttttaca caagctggtt ctgaagtgtc 720
tgccttgtta ggtcgtatgc catcagctgt gggatatcaa ccaacattag ctaccgaaat 780
ggggcaattg caagagcgga tcacgtcaac gaaaaaagga tcgatc 826

<210> 1602
<211> 833
<212> DNA
<213> Enterococcus solitarius ATCC 49428

<400> 1602
tgatacttta ccagatatta ataatgcatt agtagtatat aaaaaggacg aggacaagac 60
acgcgttgtc ttagaagcca ccttggaact tggagatggc atgattcgtg caatctctat 120
gggatcgact gatggcttgc aacggggaat ggaagttgtg gacacacaag cacctatttc 180
tgttccagta ggaaatgaaa ccttaggacg tgtttttaat gtcttaggag aaacgattga 240
taaacaggca ccgtttcctg aagatgccaa aaaaagtggt attcataaaa aagcacccgc 300
ttttgatgaa ttaagtacca gttctgaaat attggaaacc gggattaaag taatcgattt 360
gctagctcct tatttacgag gtggtaaagt tggattattt ggcggtgctg gcgtgggtaa 420
aacggtatta attcaagaat taattcataa cgttgcccaa gaacatgggg gaatttctgt 480
ttttacgggt gtcggagagc gtactcgtga aggaaatgac ctatattatg aaatgcagga 540
ttcaggcgtt attgaaaaaa cggctatggt atttggacaa atgaacgaac cccctggtgc 600
acgtatgcgt gtagcgttaa ctggtttgac acttgctgag tacttccgtg atgtacaagg 660

tcaagacgta ttattattta tagataatat tttccgcttt actcaagcag gaacagaagt 720
atctgcttta ttaggacgga tgccgtctgc cgttggttac caaccaactc tagcaacgga 780
aatgggacag ttgcaagaac gaatcacatc gacagataaa ggatcaatta cct 833

<210> 1603
<211> 806
<212> DNA
<213> Campylobacter sputorum subsp. sputorum ATCC 35980

<400> 1603
atcagcctaa aattaacgaa gcaatagaag ttaattatga attagatggt aaaaaaataa 60
gacttattct tgaagtagct ggacatcttg gcgataatag agcaagaacc attgctatgg 120
atatgagtga tggtttacaa agaggattag aagttacggc tcttggtgct cctataacag 180
ttcctgttgg agataaagtt ttaggtagaa tgtttaatgt tgtaggtgac ttaatagatg 240
aaggtgaagt aacagatttt gataaaagat gggctatcca tagagatcct ccttcgtttg 300
aagatcaaag tacaaaaagt gaaatttttg aaacaggtat aaaagtagtt gatcttcttg 360
caccttatgc aaaaggtggt aaagttggct tatttggtgg tgctggcgtt ggaaaaacag 420
ttatcataat ggagcttata cataatgttg catttaaaca cagcggttat tcaatttttg 480
ccggtgttgg agagagaaca agagagggaa atgatcttta taatgagatg aaagagtctg 540
gtgttttgga taaagttgcc ttatgttatg gacaaatgaa tgaaccacca ggagcaagaa 600
accgtatagc attaacaggt cttacaatgg ctgaatattt ccgtgatgaa atggggcttg 660
atgtgttgat gtttatagat aatattttta gattttctca atcaggttct gaaatgtcag 720
cgctgcttgg tagaattcca tctgctgttg gttatcaacc aacattagca agtgagatgg 780
gaaaacttca agaaagaatt acttcc 806

<210> 1604
<211> 738
<212> DNA
<213> Enterococcus pseudoavium ATCC 49372

<400> 1604
ggtgttatcc gcacaatcgc tatggaatct acagatggat tgcaacgggg gatggaagtt 60
gtcgataccg gcaaaccaat ctctgttcct gtaggtaaag aaacattagg tcgtgtgttt 120
aacgtattag gtgaaacgat cgacaaagaa gcacctttc cagaagatgt agaaaagagc 180
ggtattcaca aaaaggcccc cgcttttgaa gaccttagca ccagtaatga gattttagaa 240
actgggatca aggttatcga cttattagcc ccttacttaa aaggtggtaa agttggacta 300
ttcggtggtg ccggtgttgg taaaaccgtc ttaattcaag aactgattca taatatcgcc 360
caagaacacg gtgggatttc tgtctttacc ggggttgggg aacggactcg tgaagggaac 420
gacctttatt atgaaatgaa agaatccggc gttattgaaa aaacagcgat ggtcttcgga 480
caaatgaatg agccaccagg tgcgcggatg cgcgttgcct tgactggttt gacattagct 540
gaatatttcc gtgatgaaga aggtcaagat gtgttgctat ttatcgataa cattttccgc 600
ttcacacaag ccggatcaga agtttcggcg ctattaggtc ggatgccatc tgccgttggt 660
tatcaaccaa ccttggcaac agaaatgggt caattacaag aacgaatcac ttcaacgaaa 720
aaaggctcaa ttacatcg 738

<210> 1605
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<220>
<221> misc_feature
<222> (12)..(12)
<223> n represents a modified base

<220>
<221> misc_feature
<222> (18)..(18)
<223> n represents a modified base

<220>
<221> modified_base
<222> (12)..(12)
<223> i

<220>
<221> modified_base
<222> (18)..(18)
<223> i

<400> 1605
atyatygaar tntaygcncc 20

<210> 1606
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<220>
<221> misc_feature
<222> (9)..(9)
<223> n represents a modified base

<220>
<221> misc_feature
<222> (12)..(12)
<223> n represents a modified base

<220>
<221> misc_feature
<222> (15)..(15)
<223> n represents a modified base

<220>
<221> modified_base
<222> (9)..(9)
<223> i

<220>
<221> modified_base
<222> (12)..(12)
<223> i

<220>
<221> modified_base
<222> (15)..(15)
<223> i

<400> 1606
ccraacatna ynccnacttt ttc 23

<210> 1607
<211> 336
<212> DNA
<213> Klebsiella ornithinolytica ATCC 31898

<400> 1607
ctggattatg cgatgtcggt cattgttggc cgtgcgctgc cggatgtccg agatggcctg 60
aaaccggtac accgtcgcgt actttacgcc atgaacgtat tgggcaatga ctggaacaaa 120
gcctataaaa aatccgcccg tgtcgttggt gacgtaatcg gtaaatacca ccctcatggt 180

gataccgccg tttatgacac cattgtacgt atggcacagc cattctcctt gcgttatatg 240
ctggtcgatg gccagggtaa cttcggttct gtcgatggcg actccgccgc agcgatgcgt 300
tatacggaaa tccgtatgtc gaaaatcgcc cacgag 336

<210> 1608
<211> 341
<212> DNA
<213> Klebsiella oxytoca ATCC 13182

<400> 1608
ctatctggat tatgcgatgt cggtcattgt tggccgtgcg ctgccggatg tccgagatgg 60
cctgaagccg gtacaccgtc gcgtactata cgccatgaac gtattgggca atgactggaa 120
caaagcctat aaaaaatctg cccgtgtcgt gggtgacgtc atcggtaaat accaccctca 180
tggtgatact gccgtatacg acaccattgt acgtatggcg cagccattct ccctgcgtta 240
catgctggta gatggccagg gtaactttgg ttcggtcgac ggcgactccg ccgcagcgat 300
gcgttatacg gaaatccgta tgtcgaagat cgcccatgaa c 341

<210> 1609
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1609
gccctgatcc aaatagcata ta 22

<210> 1610
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1610
cctggcataa cagtaacatt ctg 23

<210> 1611
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1611
tgggaaaaag caactccatc tc 22

<210> 1612
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1612
acaactgaat tcgcagcaac aat 23

<210> 1613
<211> 639
<212> DNA
<213> Staphylococcus aureus

<400> 1613
atgaaatatg gccctgatcc aaatagcata tatccacatg aagaaataaa aagtgtttgt 60
tttattaaaa atacaattac caatccaaat attatagttg gagattatac ttactattcc 120
gatgttaacg gagctgaaaa atttgaagaa catgtgacac atcattatga atttaggggt 180
gataaacttg taattggcaa gttttgtgca atagctgaag gtatagaatt tattatgaat 240
ggagcaaacc atagaatgaa ttcaataaca acttatcctt ttaatataat gggaaatggt 300
tgggaaaaag caactccatc tcttgaagat ttaccattta agggagatac tgttgttgga 360
aatgatgtgt ggattggtca gaatgttact gttatgccag gaattcaaat aggagatgga 420
gcaattgttg ctgcgaattc agttgttaca aaagatgtac caccatatcg tattattggt 480
ggaaatccga gtagaattat aaagaaaagg tttgaagatg aattgataga ttatttattg 540
caaataaaat ggtgggattg gtcagcacaa aaaatatttt ctaatcttga aacactttgt 600
agctctgatt tagagaaaat aaaatctatt cgagattag 639

<210> 1614
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1614
ccaatccaga agaaatatac cc 22

<210> 1615
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1615
attagtttat ccccaatcaa ttca 24

<210> 1616
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1616
ataatgaatg gggctaatca tcgtat 26

<210> 1617
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1617
gccaacaact gaataaggat caac 24

<210> 1618
<211> 639
<212> DNA
<213> Staphylococcus cohnii

<400> 1618
atgaaatggc aaaatcagca aggccccaat ccagaagaaa tataccctat agaaggtaat 60
aaacatgttc aatttattaa accatctata acaaagccca atattttagt tggggaatat 120
tcatattacg atagtaaaga tggtgaatct tttgaaagcc aagttcttta tcactatgaa 180
ttgattgggg ataaactaat attagggaag ttttgttcta ttggacccgg aacgacattt 240
ataatgaatg gggctaatca tcgtatggat ggttcaacat ttccattcaa tcttttcgga 300
aatggttggg agaagcatac ccctacattg gaagaccttc cttataaggg taacacggaa 360
attgggaacg atgtttggat tggacgagat gtgacaatta tgcccggtgt aaaaatagga 420
aacggggcta ttattgcagc aaaatcggtt gtgacaaaga acgttgatcc ttattcagtt 480
gttggcggta atccttcacg attaattaag ataaggtttt ccaaggaaaa aatcgcagca 540
ttactaaaag taaggtggtg ggacctagag atagagacga taaatgaaaa tattgattgc 600
atcctgaatg gtgatataaa aaaggttaaa agaagttag 639

<210> 1619
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1619
aaggcaaaat aaaaggagca aagc 24

<210> 1620
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1620
tgtacccgag acatcttcac cac 23

<210> 1621
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1621
aattgaagga cgggtattgt ggaaag 26

<210> 1622
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1622
cgattttgac agatggcgat aatgaa 26

<210> 1623
<211> 1569
<212> DNA
<213> Staphylococcus aureus

<400> 1623
atgaaaataa tgttagaggg acttaatata aaacattatg ttcaagatcg tttattgttg 60
aacataaatc gcctaaagat ttatcagaat gatcgtattg gtttaattgg taaaaatgga 120
agtggaaaaa caacgttact tcacatatta tataaaaaaa ttgtgcctga agaaggtatt 180
gtaaaacaat tttcacattg tgaacttatt cctcaattga agctcataga atcaactaaa 240
agtggtggtg aagtaacacg aaactatatt cggcaagcgc ttgataaaaa tccagaactg 300
ctattagcag atgaaccaac aactaactta gataataact atatagaaaa attagaacag 360
gatttaaaaa attggcatgg agcatttatt atagtttcac atgatcgcgc ttttttagat 420
aacttgtgta ctactatatg ggaaattgac gagggaagaa taactgaata taaggggaat 480
tatagtaact atgttgaaca aaaagaatta gaaagacatc gagaagaatt agaatatgaa 540
aaatatgaaa aagaaaagaa acgattggaa aaagctataa atataaaaga acagaaagct 600
caacgagcaa ctaaaaaacc gaaaaactta agtttatctg aaggcaaaat aaaaggagca 660
aagccatact ttgcaggtaa gcaaaagaag ttacgaaaaa ctgtaaaatc tctagaaacc 720
agactagaaa aacttgaaag cgtcgaaaag agaaacgaac ttcctccact taaaatggat 780
ttagtgaact tagaaagtgt aaaaaataga actataatac gtggtgaaga tgtctcgggt 840
acaattgaag gacgggtatt gtggaaagca aaaagtttta gtattcgcgg aggagacaag 900
atggcaatta tcggatctaa tggtacagga aagacaacgt ttattaaaaa aattgtgcat 960
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gaaactctta ttcgaactat tctagctaga atgcattttt ttagagatga tgtttataaa 1140
ccaataagtg tcttaagtgg tggagagcga gttaaagtag cactaactaa agtattctta 1200
agtgaagtta atacgttggt actagatgaa ccaacaaact ttcttgatat ggaagctata 1260
gaggcgtttg aatctttgtt aaaggaatat aatggcagta taatctttgt atctcacgat 1320
cgtaaattta tcgaaaaagt agccactcga ataatgacaa ttgataataa agaaataaaa 1380
atatttgatg gcacatatga acaatttaaa caagctgaaa agccaacaag gaatattaaa 1440
gaagataaaa aacttttact tgagacaaaa attacagaag tactcagtcg attgagtatt 1500
gaaccttcgg aagaattaga acaagagttt caaaacttaa taaatgaaaa aagaaatttg 1560
gataaataa 1569

<210> 1624
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1624
ttctttaatg ctcgtagatg aaccta 26

<210> 1625
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1625
ttttcgtatt cttcttgttg ctttc 25

<210> 1626
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1626
aggaatgatt aagccccctt caaaaa 26

<210> 1627
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1627
ttacattgcg accatgaaat tgctct 26

<210> 1628
<211> 1658
<212> DNA
<213> Staphylococcus aureus

<400> 1628
atgcttaaaa tcgacatgaa gaatgtaaaa aaatattatg cagataaatt aattttaaat 60
ataaaagaac taaagattta tagtggggat aaaataggta ttgtaggtaa gaatggagtt 120
ggcaaaacaa cacttttaaa aataataaaa ggactaatag agattgacga aggaaatata 180
attataagtg aaaaaacaac tattaaatat atctctcaat tagaagaacc acatagtaag 240
ataattgatg gaaaatatgc ttcaatattt caagttgaaa ataagtggaa tgacaatatg 300
agtggtggtg aaaaaactag atttaaacta gcagagggat ttcaagatca atgttcttta 360
atgctcgtag atgaacctac aagtaattta gatatcgaag gaatagagtt gataacaaat 420
acttttaaag agtaccgtga tacttttttg gtagtatctc atgatagaat ttttttagat 480
caagtttgta caaaaatttt tgaaattgaa aatggatata ttagagaatt catcggtaat 540
tatacaaact atatagagca aaaagaaatg cttctacgaa agcaacaaga agaatacgaa 600
aagtataatt ctaaaagaaa gcaattggag caagctataa agctaaaaga gaataaggcg 660
caaggaatga ttaagccccc ttcaaaaaca atgggaacat ctgaatctag aatatggaaa 720
atgcaacatg ctactaaaca aaaaaagatg catagaaata cgaaatcgtt ggaaacacga 780
atagataaat taaatcatgt agaaaaaata aaagagcttc cttctattaa aatggattta 840
cctaatagag agcaatttca tggtcgcaat gtaattagtt taaaaaactt atctataaaa 900
tttaataatc aatttctttg gagagatgct tcatttgtca ttaaaggtgg agaaaaggtt 960
gctataattg gtaacaatgg tgtaggaaaa acaacattgt tgaagctgat tctagaaaaa 1020
gtagaatcag taataatatc accatcagtt aaaattggat acgtcagtca aaacttagat 1080
gttctacaat ctcataaatc tatcttagaa aatgttatgt ctacctccat tcaagatgaa 1140
acaatagcaa gaattgttct agcaagatta cattttttatc gcaatgatgt tcataaagaa 1200
ataaatgttt tgagtggtgg agaacaaata aaggttgctt ttgccaagct atttgttagc 1260
gattgtaata cattaattct tgatgaacca acaaactatt tggatatcga tgctgttgag 1320
gcattagaag aattgttaat tacctatgaa ggtgttgtgt tatttgcttc ccatgataaa 1380
aaatttatac aaaacctagc tgaacaattg ttaataatag aaaataataa agtgaaaaaa 1440
ttcgaaggaa catatataga atatttaaaa attaaagata aaccaaaatt aaatacaaat 1500
gaaaaagaac tcaaagaaaa aaagatgata ctagaaatgc aaatttcatc attattaagt 1560

aaaatctcaa tggaagaaaa tgaagaaaaa aacaaagaat tagatgaaaa gtacaaattg 1620
aaattaaaag aattgaaaag cctaaataaa aatattta 1658

<210> 1629
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1629
aaggggaaag tttggattac acaaca 26

<210> 1630
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1630
gaaccacagg gcattatcag aacc 24

<210> 1631
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1631
cgacgatgct ttatggtttg t 21

<210> 1632
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1632
gttaatttgc ctatcttgtc acactc 26

<210> 1633
<211> 900
<212> DNA
<213> Staphylococcus aureus

<400> 1633
atggaattta aattacaaga attaaatctt actaaccaag atacaggacc atatggtata 60
accgtttcag ataaggggaa agtttggatt acacaacata aagcaaatat gataagttgc 120
atcaatttag atggaaaaat tacagagtac ccactaccga caccagatgc aaaagtcatg 180
tgtttaacta tatcctcaga tggggaagtt tggtttactg agaatgcagc aaacaaaata 240

gggaggatta caaaaaaagg gattattaag gaatatacat tgcctaaccc agattcagca 300
ccctacggta ttacagaagg accaaatgga gatatatggt ttacagaaat gaatggcaac 360
cgtattggac gtattacgga cgacggtaaa attcgtgaat acgagctgcc taataaagga 420
tcttaccctt cttttatcac tttgggttct gataatgccc tgtggttcac agaaaatcaa 480
aataatgcta ttggtagaat tacagaaagt ggggatatta cagagtttaa aattcctaca 540
cctgcatcag gaccagttgg tattacaaag gggaacgacg atgctttatg gtttgtggaa 600
attatcggta ataagatagg gcgaataact cctctggggg aaattaccga attcaaaatt 660
ccaacgccaa acgctcgacc tcatgcaatt actgctggag caggaattga tttatggttt 720
actgaatggg gggctaataa aataggaagg ctgacaagca ataatataat tgaggaatac 780
ccaattcaaa tcaaaagtgg tgaaccacat ggcatttgtt tcgatggtga aacaatttgg 840
tttgcaatgg agtgtgacaa gataggcaaa ttaactctca ttaaggataa tatggagtga 900

<210> 1634
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1634
ttaacttgtc tattcccgat tcagg 25

<210> 1635
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1635
gctgtggcaa tggatattct gta 23

<210> 1636
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1636
ttcctacccc tgatgctaaa gtga 24

<210> 1637
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1637
caaagtgcgt tatccgaacc taa 23

<210> 1638

<211> 527
<212> DNA
<213> Aspergillus fumigatus strain WSA-172

<400> 1638
ggtggggaag actgtcttca tccaggaatt gattgtgagt cgttccacat gctcacctag 60
ttttcgctcg atcttttcac taacgcaaac catgtagaac aacattgcca aggcccacgg 120
tggttactcc gtcttcactg gtgttggtga gcgtactcgt gagggtaacg atctgtacca 180
cgaaatgcag gagactggtg tcattcagct cgagggtgaa tccaaggtcg cactggtgtt 240
cggacagatg aacgagcccc ccggtgcccg tgcccgtgtc gcccttaccg gtctgaccat 300
tgccgagtac ttccgtgacg aggagggtca ggacgtgctg ctcttcattg acaacatttt 360
ccgtttcacc caggccggtt ctgaggtgtc tgcccttctc ggtcgtatcc cctctgccgt 420
cggttaccag cccaccctgg ccgtcgacat gggtggtatg caggagcgta tcaccaccac 480
caagaagggt tctattacct ccgtccargc cgtctacgtc cccgcga 527

<210> 1639
<211> 452
<212> DNA
<213> Aspergillus fumigatus ATCC 64746

<400> 1639
actgtcttga ttcaagaact tattaacaac attgctaaag cccatggtgg ttactctatt 60
ttctgtggtg ttggtgaacg tactcgtgaa ggtaacgatt tataccacga aatgatggaa 120
actggtgtca ttaaacttga aggtgactcc aagtgtgctc ttgtattcgg tcaaatgaac 180
gaacctcctg gtgctcgtgc ccgtgttgct ttaactggtt taaccattgc tgaatacttc 240
cgtgatgaag aaggtcaaga tgtgttactt ttcattgata acattttccg tttcactcaa 300
gctggttctg aagtatctgc ccttttaggt cgtattccat ctgctgtagg ttaccaaccc 360
actttatcta ctgatatggg tggtatgcaa gaacgtatta ctactaccaa gaatggttcc 420
attacctctg tacargccgt ctacgtcccc gc 452

<210> 1640
<211> 783
<212> DNA
<213> Bacillus mycoides ATCC 6462

<400> 1640
acgcccttac ggtaaaacaa agcaacgaaa acggaagcat gaacttaaca tttgaagttg 60
cacttcattt aggtgatgat acagttcgta cagttgcgat gtcttccaca gatggacttg 120
ttcgtggcac agaagtagaa gatactggta aagcaatctc tgtaccagtt ggtgatgcaa 180
cacttggtcg tgtattcaac gtattaggtg atgcaattga cttagatggt gaacttcctg 240
cggatgtaca ccgtgatcca attcaccgtc aagcacctgc attcgaagaa ttatctacta 300
aagtagaaat tcttgaaact ggtattaaag tagtagactt acttgctcct tacattaagg 360
gtggtaagat cggcctattc ggtggtgccg gcgtaggtaa aacagtatta attcaagaat 420
taattaacaa catcgcacaa gagcacggtg gtatctctgt attcgctggt gtaggtgagc 480
gtactcgtga gggtaatgac ttataccatg aaatgagcga ttctggcgta atcaagaaaa 540
ctgcgatggt attcggacaa atgaatgagc cacctggagc acgtcaacgt gttgcattaa 600
caggtttaac aatggctgag catttccgtg atgagcaagg acaagacgta cttctgttca 660
tcgataacat cttccgtttc acgcaagcgg gttctgaagt atctgccctt cttggtcgta 720
tgccatctgc ggtaggttac caaccaacac ttgcaacaga aatgggtcaa ttacaagagc 780
gta 783

<210> 1641
<211> 823
<212> DNA
<213> Bacillus mycoides NRRL NRS-319

<400> 1641
atctacaacg cccttacggt aaaacaaagc aacgaaaacg gagcaagcat taacttaaca 60
tttgaagttg cacttcattt aggtgatgac acagttcgta cagttgcaat gtcttccaca 120
gatggacttg ttcgtggcac agaagtagaa gatactggta aagcaatctc tgtaccagtt 180
ggtgatgcaa cacttggtcg tgtattcaac gtattaggtg atgcaattga cttagatggt 240
gatgttcctg cggatgtacg tcgtgatcca attcaccgtc aagcacctgc attcgaagaa 300
ctatctacta aagtagaaat tcttgaaact ggtattaaag tagtagactt acttgctcct 360

tacattaagg gtggtaagat cggtctattc ggtggtgccg gtgtaggtaa aacagtatta 420
attcaggaat taattaacaa catcgcacaa gaacacggtg gtatctctgt attcgctggt 480
gtaggtgagc gtactcgtga gggtaacgac ttataccatg aaatgagcga ttctggcgta 540
attaagaaaa ctgcgatggt attcggacaa atgaatgagc cacctggagc acgtcaacgt 600
gttgcattaa caggtttaac aatggctgaa catttccgtg atgagcaagg acaagacgta 660
ctattgttca tcgataacat cttccgtttc acgcaagcag gttctgaagt atctgccctt 720
cttggtcgta tgccatctgc ggtaggttac caaccaacac ttgcaacaga aatgggtcaa 780
ttacaagagc gtattacatc tacaaataaa ggatctatca cgt 823

<210> 1642
<211> 829
<212> DNA
<213> Bacillus mycoides NRRL BD-15

<400> 1642
gatggcggaa agctaccaga aatctacaac gcccttacgg taaaacaaag caacgaaaac 60
ggagcaaaca ttaacttaac atttgaagtt gcacttcatt taggtgatga tacagttcgt 120
acagttgcga tgtcttccac agatggactt gttcgtggca cagaagtaga agatactggt 180
aaagcaatct ctgtaccagt tggtgatgta acacttggtc gtgtattcaa cgtattaggt 240
gatgcaattg acttagatgg tgaagttcct gcggatgtac gtcgtgatcc aattcaccgt 300
caagcacctg cattcgaaga attatctact aaagtagaaa ttcttgaaac tggtattaaa 360
gtagtagact tacttgctcc ttacattaag ggtggtaaga ttggtctatt cggtggtgcc 420
ggtgtaggta aaacagtatt aattcaggaa ttaattaaca acatcgcaca agaacacggt 480
ggtatctctg tattcgccgg tgtaggtgag cgtactcgtg aaggtaacga cttataccac 540
gaaatgagcg attctggcgt aattaagaaa actgcgatgg tattcggaca aatgaacgag 600
ccacctggag cacgtcaacg tgttgcatta acaggtttaa caatggctga gcatttccgt 660
gatgagcaag gacaagacgt actactgttc atcgataaca tcttccgttt cacgcaagca 720
ggttctgaag tatctgccct tcttggtcgt atgccatctg cggtaggtta ccagccaaca 780
cttgcaacag aaatgggtca attacaagag cgtattacat ctacaaata 829

<210> 1643
<211> 823
<212> DNA
<213> Bacillus pseudomycoides NRRL BD-10

<400> 1643
aatctacaat gcccttacgg taaaacaaag caacgaaaac ggagcaagca ttaacttaac 60
atttgaagtt gcacttcatt taggtgatga cacagttcgt acagttgcga tgtcttccac 120
agatggactt gttcgtggca cagaagtaga agatactggt aaaccaatct ctgtaccggt 180
tggtgatgca acacttggtc gtgtatttaa cgtattaggt gatgcaattg acttagatgg 240
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gttatctacg aaagtagaaa ttcttgaaac tggtattaaa gtagtagact tacttgctcc 360
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<212> DNA
<213> Bacillus pseudomycoides NRRL B-617

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<210> 1645
<211> 778
<212> DNA
<213> Budvicia aquatica ATCC 35567

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<210> 1646
<211> 806
<212> DNA
<213> Buttiauxella agrestis ATCC 33320

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<210> 1647
<211> 1122
<212> DNA
<213> Candida norvegica ATCC 36586

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<210> 1648
<211> 813
<212> DNA
<213> Streptococcus pneumoniae ATCC 700677

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<210> 1649
<211> 813
<212> DNA
<213> Campylobacter lari ATCC 43675

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gaaagaatta cttcaaccaa gaaaggatct att 813

<210> 1650
<211> 570
<212> DNA
<213> Coccidioides immitis strain WSA-222

<400> 1650
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attacttcag tgcargccgt ctacgtcccc 570

<210> 1651
<211> 560
<212> DNA
<213> Emmonsia parva ATCC 10784

<400> 1651
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<210> 1652
<211> 780
<212> DNA
<213> Erwinia amylovora ATCC 14976

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<211> 545
<212> DNA
<213> Fonsecaea pedrosoi ATCC 18831

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<210> 1654

<211> 564
<212> DNA
<213> Fusarium moniliforme strain WSA-213

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<210> 1655
<211> 776
<212> DNA
<213> Klebsiella oxytoca ATCC 13182

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<210> 1656
<211> 572
<212> DNA
<213> Microsporum audouinii ATCC 11347

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<210> 1657
<211> 790
<212> DNA
<213> Obesumbacterium proteus ATCC 12841

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<210> 1658
<211> 622
<212> DNA
<213> Paracoccidioides brasiliensis ATCC 200443

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<210> 1659
<211> 794
<212> DNA
<213> Plesiomonas shigelloides ATCC 14029

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<210> 1660
<211> 799
<212> DNA
<213> Shewanella putrefaciens ATCC 8071

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gtggtaaagt aggtctgttc ggtggtgcgg gtgttggtaa aacagttaac atgatggaac 420

tgattaacaa catcgctaaa gctcactcgg gtctttcggt gttcgccggt gtgggtgaac 480
gtactcgtga aggtaacgac ttctactacg agatgaaaga ttctggcgtt ctcgacaaag 540
tggccatggt ttatggtcag atgaacgagc caccaggaaa ccgtttacgc gtagcactgt 600
caggtctgac aatggctgag aagttccgtg acgaaggtcg tgacgtattg ttgttcgttg 660
acaacatcta ccgttatacc ttagccggta ctgaagtatc tgcactgtta ggccgtatgc 720
cttctgcggt aggttatcaa ccaacattgg ctgaagaaat gggcgttctg caagagcgta 780
ttacttcaac taagacggg 799

<210> 1661
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1661
tgggaagcga aaatcctg 18

<210> 1662
<211> 774
<212> DNA
<213> Campylobacter curvus ATCC 35224

<400> 1662
ctatgcctca aactagagag catatcttgc tatctcgcca agtaggcgtt ccatatatcg 60
ttgtatttat gaacaaagcc gatatggtcg atgacgctga gcttcttgag ctagtcgaga 120
tggaaattcg cgagcttctt aacgagtaca acttccctgg cgatgatact cctatcatat 180
caggttctgc tcttaaagcc ctcgaagagg ctaaagcagg cgttgatggc gagtggtcag 240
caaaagttct tgagcttatg gataaagtcg atgagtatat cccaactcca gttcgtgcta 300
ccgataaaga cttcctgatg cctatcgaag acgttttctc tatctcaggt cgtggaacgg 360
tcgttactgg taggatcgaa aaaggtgtcg taaaagttgg cgatactatc gagatcgttg 420
gtatcaaacc tactcaaact acgacagtta ctggcgttga gatgtttagg aaagagatgg 480
aacaaggcga ggccggtgat aacgtaggtg ttcttttaag aggtactaaa aaagaagacg 540
tcgagcgcgg catggttctt tgtaagccaa aatcaatcac tcctcataca aaatttgagg 600
gtgaggttta tatcctaaca aaagaggaag gcggacgcca cactccattc tttaacaact 660
atagaccaca attttatgta agaacaacag acgttacagg ttctatcaca cttccagaag 720
gaactgagat ggttatgcct ggagataatg tcagaatttc cgttgaactc atcg 774

<210> 1663
<211> 791
<212> DNA
<213> Campylobacter rectus ATCC 33238

<400> 1663
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aggcgttccg tatatcgttg tttttatgaa caaagccgat atggtcgatg atgccgagct 120
tcttgagctg gttgagatgg agattcgcga gcttctaaac gagtatgatt tccctggtga 180
cgatactcca atcgtagcag gctctgctct tcaagctctt aatgaagcca aagccggaac 240
agaaggcgag tggtctgcaa aaattcttga gcttatggct aaagttgacg agtatatccc 300
gactccggtt cgtgcaacgg ataaagactt cttgatgcct attgaggacg ttttctctat 360
ctccggtcgc ggcaccgtcg ttaccggcag aatcgaaaaa ggtatcgtaa aagtcggtga 420
tactatcgag atcgtaggta tccgcgatac tcaaacaact accgttaccg gcgttgagat 480
gttcagaaaa gagatggatc aaggcgaagc gggcgataac gtaggcgttc ttctaagagg 540
cactaaaaaa gaagacgttg agcgcggtat ggttctttgc aaacctaaat caatcactcc 600
tcacactaaa tttgagggag aggtttatat cttaactaaa gaggaaggcg gacgccatac 660
tccattcttt aataactata gaccgcagtt ttatgtaaga actaccgacg ttaccggttc 720
tatcactctt ccggaaggaa cagagatggt tatgcctggc gataacttaa agataagcgt 780
tgagcttatc g 791

<210> 1664

<211> 810
<212> DNA
<213> Fonsecaea pedrosoi ATCC 18831

<400> 1664
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cgtcgagatg gagatgcgtg agcttctctc cagctacggc ttcgagggtg acgacactcc 180
catcgtcatg ggttccgccc tttgcgccat tgagggccgc gagcccgaca ttggtgtcga 240
gaagattgac gagctcctcg agcacgtcga cacctggatc cccacccccg agcgtgacat 300
cgccaagcct ttcctcatgt ccgttgagga cgtcttctcc attcccggcc gtggtaccgt 360
cgcttctggc cgtgtcgagc gtggtgtcct gaagaaggat tccgaagtcg agcttgtcgg 420
caagaacaag aaccccatca agaccaaggt taccgacatc gagaccttca agaagtcttg 480
cgacgagtcc cgcgctggtg acaactccgg tctccttctc cgtggtgtca agcgtgacga 540
tgtcctccgt ggcatggtcg ttgtccagcc cggcaccacc aaggcccaca agaagttcct 600
tgcctccatg tacgtcctca ccaaggagga gggtggccgc cacactggtt tcgccaacaa 660
ctacaagccc cagatgttca tccgtaccgc cgatgaggcc gccactctta cctggcccga 720
gggtaccgag gaggacaaga tggtcatgcc cggtgacaat gtcgagatga tctgcgagat 780
ccacaagccc attgccgtcg agcaaggcca 810

<210> 1665
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1665
cagtacaggt agacttctg 19

<210> 1666
<211> 888
<212> DNA
<213> Microsporum audouinii ATCC 11347

<400> 1666
atgattgcga aacctacttg ctgtggaaga atttggatat tctaacattt ctctaggcct 60
caaaccagag agcatctgct ccttgcccgc caggtcggtg ttcagaagct cgtcgttttc 120
gttaacaagg tcgacgctgt tgaggaccca gagatgttgg aacttgtcga gctagagatg 180
cgtgagctgc tcagccacta tggtttcgag ggtgaggaga ccccaatcat ttttggctct 240
gctctctgcg cccttgaatc tcgacgacca gaattgggtg ttgagaagat cgatgagcta 300
ttgaacgctg tggatacctg gattcccacc ccagagcgtg ccactgataa gcctttcctt 360
atgtccattg aggaagtttt ctccatctct ggtcgtggta ccgtcgtttc cggtcgtgtc 420
gagcgtggta tcctcaagaa ggactctgat gtcgaaattg tgggtggatc tgatacaccc 480
atcaagacga aggtcaccga cattgaaacc ttcaagaagt cttgtgacga atcccgagct 540
ggtgacaact ccggtctact tctccgaggt gtcaagcgtg aggacttgag acgtggaatg 600
gttgttgctg ctcccggatc gaccaaggct cataccgact tcatggtctc cctttatgtt 660
ctgaccgagg ctgagggtgg ccgttccaat ggattcaccc acaagtaccg cccacagatg 720
ttcatccgta ctgccggtat gtaaaccctt tttctaccat tcactttgtt tcaccactga 780
cttgtatact ttaccgcaga cgaagccgca tctttcagct ggcctggaga ggatcaagac 840
aagaaggcca tgcctggtga caatgtcgag atgatttgca agaccctc 888

<210> 1667
<211> 793
<212> DNA
<213> Piedraia hortai ATCC 24292

<400> 1667
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gttttcgtca acaaggttga tgctatcgac gacccggaga tgctggagct tgtcgagatg 120
gagatgcgtg aacttctcag cacatacggt ttcgagggtg acgagacccc tgttattatg 180

ggctccgcgc tcatggctct caacaaccag cgccccgaga ttggtcaaca gaagattgat 240
gaactcatgg ccgctgtcga cgagtggatc cctactcccc agcgtgacct cgacaagcct 300
ttcctgatgt ctgttgagga tgtcttctcc attgctggcc gtggtaccgt tgtgtccggc 360
cgtgtggagc gcggtaccct caagcgtgat gaggaagtcg agcttgtcgg caagggtgtc 420
gaccccatca agaccaaggt caccgatatc gagactttca agaagtcctg cgaggaggct 480
caggctggtg acaactctgg tcttctgatc cgtggtgtcc gccgcgagga tgttcgtcgc 540
ggtatggttg tctccaagcc cggcaccgtc aagtctcaca ctcagttcct ggcctcgctt 600
tacgttctca ccaaggagga gggtggtcgc cacactggtt tcggcgagca ctaccgtccc 660
cagctctacc tccgtacctc agacgagtct gtcgatctga ccttccccga gggaactgag 720
gatcaccact ccaagatcgt catgcctggt gacaacatcg agatggtcgt cacgatgact 780
cacgccaacg cta 793

<210> 1668
<211> 891
<212> DNA
<213> Escherichia coli strain K-12 KL1699

<400> 1668
aacatgatca ccggtgctgc gcagatggac ggcgcgatcc tggtagttgc tgcgactgac 60
ggcccgatgc cgcagactcg tgagcacatc ctgctgggtc gtcaggtagg cgttccgtac 120
atcatcgtgt tcctgaacaa atgcgacatg gttgatgacg aagagctgct ggaactggtt 180
gaaatggaag ttcgtgaact tctgtctcag tacgacttcc cgggcgacga cactccgatc 240
gttcgtggtt ctgctctgaa agcgctggaa ggcgacgcag agtgggaagc gaaaatcctg 300
gaactggctg gcttcctgga ttcttacatt ccggaaccag agcgtgcgat tgacaagccg 360
ttcctgctgc cgatcgaaga cgtattctcc atctccggtc gtggtaccgt tgttaccggt 420
cgtgtagaac gcggtatcat caaagttggt gaagaagttg aaatcgttgg tatcaaagag 480
actcagaagt ctacctgtac tggcgttgaa atgttccgca aactgctgga cgaaggccgt 540
gctggtgaga acgtaggtgt tctgctgcgt ggtatcaaac gtgaagaaat cgaacgtggt 600
caggtactgg ctaagccggg caccatcaag ccgcacacca agttcgaatc tgaagtgtac 660
attctgtcca aagatgaagg cggccgtcat actccgttct tcaaaggcta ccgtccgcag 720
ttctacttcc gtactactga cgtgactggt accatcgaac tgccggaagg cgtagagatg 780
gtaatgccgg gcgacaacat caaaatggtt gttaccctga tccacccgat cgcgatggac 840
gacggtctgc gtttcgcaat ccgtgaaggc ggccgtaccg ttggcgcggg c 891

<210> 1669
<211> 805
<212> DNA
<213> Saksenaea vasiformis ATCC 60625

<400> 1669
tcctcgtggt cgccgccacc gacggcccga tgccgcagac caaggagcac gtgctcctgg 60
cccgccaggt cggcgttccg tacatcgtcg tcgccctcaa caaggccgac atggtggacg 120
acgaggagat cctggagctc gtcgagctcg aggtccgtga gctcctctcc gagtacgagt 180
tcccgggcga cgacgttccc gtcgtcaagg tctccgctct gaaggccctc gagggcgaca 240
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gtcgcggtac ggtcgtcacc ggccgtatcg agcgtggtgt cctgaaggtc aacgagaccg 420
tcgacatcat cggcatcaag accgagaaga ccaccaccac ggtcaccggc atcgagatgt 480
tccggaagct cctcgacgag ggccaggccg gtgagaacgt cggtctgctc ctccgtggca 540
tcaagcgcga ggacgtcgag cgcggccagg tcatcatcaa gccgggctcg gtcacgccgc 600
acacggagtt cgaggcgcag gcctacatcc tgtccaagga cgagggtggc cgccacacgc 660
cgttcttcaa caactaccgc ccgcagttct acttccgtac gacggacgtg accggcgtgg 720
tgaccctccc cgagggcacc gagatggtca tgccgggtga caacaccgag atgaaggtgg 780
agctcatcca gcccgtcgcc atgga 805

<210> 1670
<211> 935
<212> DNA
<213> Trichophyton tonsurans ATCC 56185

<400> 1670
gcttctgacg gtcaaatgta attgaatgcc cgcccagaca gatgaaagga tttgacgttt 60
ctaacatcag tctaggcctc agaccagaga acatttgctc cttgcccgcc aggtcggtgt 120

ccagaagctg gtcgttttcg ttaacaaggt cgatgccgtt gaggacccag agatgttgga 180
gcttgtcgaa cttgaaatgc gtgaactcct cagccactac ggtttcgagg gtgaggagac 240
ccccatcatt tttggctctg ctctctgtgc cctcgagtcc cgtcgacctg agcttggtgt 300
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cgtcgtctcc ggtcgtgttg agcgtggtat cctcaagaag gattcggacg tcgaaattgt 480
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catggtctcc ctctacgtcc tgactgaggc tgagggtggt cgttccaacg gcttcaccca 720
caagtaccgc ccccaaatgt tcatccgtac tgctggtatg taacccaagt ttccgctatt 780
tactaagtag atcattgcta acttgtattt ccttccgtag acgaagccgc atctttcagc 840
tggcctggag aagaccaaga caagaaggct atgcctggtg acaacgtcga gatgatttgc 900
aagaccctcc accccattgc tgccgaggct ggcca 935

<210> 1671
<211> 772
<212> DNA
<213> Enterobacter aerogenes ATCC 13048

<400> 1671
acgatgccct tgaggtacag aatggtaatg agagcctggt gctggaagtt cagcagcagc 60
tcggcggtgg cgtagtccgt gctatcgcca tgggttcttc cgacggtctg cgtcgtggtc 120
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tggaaaccgg catcaaagtt atcgacttga tgtgtccgtt cgctaagggc ggtaaagttg 360
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tcgcgatcga gcactccggt tactccgtgt ttgcgggcgt tggtgagcgt actcgtgagg 480
gtaacgactt ctatcacgaa atgaccgact ccaacgttct ggataaagta tccctggttt 540
acggccagat gaacgagccg ccgggaaacc gtctgcgcgt tgcgctgacc ggcctgacca 600
tggctgagaa attccgtgac gaaggtcgtg acgttctgct gttcgtcgat aacatctatc 660
gttacaccct ggccggtact gaagtatctg cactgctggg ccgtatgcct tcagcggtag 720
gttatcagcc gactctggcg gaagagatgg gcgttctgca ggaacgtatc ac 772

<210> 1672
<211> 1401
<212> DNA
<213> Bordetella pertussis strain Tohama 1

<400> 1672
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gataacatgc ccaagatcta cgaagcgctc accctggtcg acgagggttc ctcgttcgcc 120
gagaagggct tgacgctgga agtgcaacaa cagctgggcg acggcgtggt gcgtaccatc 180
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aaggccaaga aactccaata a 1401

<210> 1673
<211> 797
<212> DNA
<213> Arcanobacterium haemolyticum ATCC 9345

<400> 1673
cagctaccga cggtccaatg gctcagaccc gcgagcacgt tcttcttgct cgccaggttg 60
gcgttccaca gatcatcgtt gctctcaaca aggctgacat ggttgacgac gaggaaatcc 120
tcgaactcgt cgaaatggaa gttcgtgagc ttctctcttc ccaggagtac ccaggtgacg 180
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gtatccgtgc accacagaag acaaccgtta ccggtatcga aatgttccac aagtcgatgg 480
atcacgcaga tgcaggcgaa aactgtggtc ttctcctccg tggcaccaag cgcgaagatg 540
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accgtccaca gttctacttc cgtaccacgg atgttaccgg cgtgatcacc cttccagagg 720
gcaccgaaat ggttatgcca ggcgacaaca ccgacatgac agttgagctc atccagccaa 780
tcgctatgga agagggc 797

<210> 1674
<211> 785
<212> DNA
<213> Butyrivibrio fibrisolvens ATCC 19171

<400> 1674
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catacatcat cgtattccta aacaagtgcg atatggttga cgacgaggaa ttattagagt 120
tagttgagat ggacgtacgt gatctattaa atcagtacca gttcccaggc gacgacactc 180
caatcatccg tggttcagca ctaggtgcat taaacggcga agagaagtgg aaagaggcaa 240
tctatcagtt agcagacact ctagattcat acattccaga gccaaagcgt gatatcgatg 300
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gtcgtgcagg tgataacgtt ggtgttctac tacgtggtac caagcgtgat gaggttgagc 540
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tttacgtact aagcaaggat gaaggtggtc gtcacactcc attcttcaag ggctaccgtc 660
cacagttctt cttccgtaca accgatatta ccggttctat cgatctgaaa gagggcgtag 720
agatggtaat gccaggtgat aacaccgaca tgaccgtaac cctaatccac ccagtagcta 780
tggct 785

<210> 1675
<211> 835
<212> DNA
<213> Campylobacter jejuni subsp. doylei ATCC 49349

<400> 1675
tggggcgatc ttggttgttt ctgctgcaga tggtcctatg ccacaaacta gagagcacat 60
tcttctttct cgtcaagtag gcgttccata tattgttgtt tttatgaata aagcagatat 120
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agaagctaaa gctggacaag atggtgaatg gtcagcaaaa attatggatc ttatggctgc 300
agttgatagt tatattccaa ctccaactcg tgatactgaa aaagacttct tgatgccaat 360
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tgttgtaaaa gtaggtgata ctatcgaaat cgttggtatt aaagacactc aaacaacaac 480
tgtaacaggt gttgaaatgt tcagaaaaga aatggatcaa ggcgaggcag gagataacgt 540
aggtgttctt cttcgtggta ctaaaaaaga agaagttatt cgcggtatgg ttcttgctaa 600
accaaaatca attactccac acactgactt cgaagctgaa gtttatatct taaataaaga 660
tgaaggtggt agacatactc cattctttaa caactataga ccacagtttt atgtaagaac 720
aactgatgtt acaggttcga ttaaattagc tgatggtgtt gaaatggtta tgccaggtga 780

aaatgtgaga attactgtaa gcttgatcgc tccagtagca cttgaagaag gaact 835

<210> 1676
<211> 812
<212> DNA
<213> Campylobacter lari ATCC 43675

<400> 1676
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attagaatta gttgaaatgg aaattagaga attactaagc tcttatgatt tcccaggaga 180
tgatactcca attatttcag gttcagcatt acaagctctt gaagaagcaa aagctggtca 240
agatggtgaa tggtctaaaa aaatcttaga tcttatggct gcagttgatg attatattcc 300
aactccggct cgtgatacag ataaagattt cttgatgcca atcgaagatg ttttctcaat 360
ctcaggtcgt ggaactgttg ttaccggtag aattgaaaaa ggtgttgtaa aagttggtga 420
tactatagaa atcgttggta ttagagacac tcaaacaacc acagttactg gtgttgaaat 480
gtttagaaaa gaaatggatc aaggtgaagc tggtgataat gttggtgtat tacttcgtgg 540
aactaaaaaa gaagatgttg aacgtggtat ggttcttgct aaaccaaaat caatcactcc 600
acatactgat tttgaagcag aagtttatat cttaaataaa gatgaaggtg gtcgtcatac 660
tccattcttt aataattata gaccgcaatt ttatgtaaga acaactgatg ttacaggtgc 720
tattaaactt gcagaaggcg ttgagatggt tatgccaggc gataatgata gaattactgt 780
aagtcttatt gctccagttg cacttgagga ag 812

<210> 1677
<211> 828
<212> DNA
<213> Campylobacter sputorum subsp. sputorum ATCC 35980

<400> 1677
gctattcttg tatgttcagc tgcagatggt ccaatgccac agactagaga gcatattcta 60
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gatgatgctg agcttataga gttggttgaa gttgaggtta gagatttatt aaatgaatat 180
gatttccctg gagatgatac tccaatcgta taggttctg ctcttaaagc tttagaagaa 240
gcaaaagctg gaacagaggg tgaatggtct gctaaaatta tgaaacttat ggatgctgtt 300
gatagctata tcccaactcc aacaagagat acagataaag atttccttat gccaatcgaa 360
gatatcttct caatttctgg tcgtggtaca gttgtaacag gtagaattga aaaaggtgta 420
gtaaaagttg gcgagactat tgagatagtt ggtattagac ctactcaaac aacaacagtt 480
actggtgttg aaatgtttag aaaagagcta gatcaaggtg aagctggaga taatgttggt 540
atcttgttaa gaggtacaaa aaaagaagat gttgaaagag gtatggtttt atgtaaacca 600
aaatcaatca ctcctcacaa gaaatttgaa ggcgaagttt atattcttac aaaagatgaa 660
ggtggtagac atactccttt ctttagtaac tatagaccac aattttatgt tagaacaaca 720
gatgtaacag gttctatatc tcttcctgag ggaacagaga tggatatgcc tggtgataat 780
gtaaaactta cagttgaact tataaaccca attgctcttg agcaagga 828

<210> 1678
<211> 821
<212> DNA
<213> Campylobacter upsaliensis ATCC 49815

<400> 1678
cgattttggt tgtttctgct gctgatggtc ctatgccaca aactagagag cacattttgc 60
tttctcgtca agtgggtgtt ccttatatcg tagtttttat gaataaggct gatatggttg 120
atgatgcaga gcttttagaa ttggttgaaa tggaaattag agaacttta agctcttatg 180
atttcccggg cgatgacact cctatcattt caggctctgc tcttcaagcc ttagaagagg 240
ctaaggcggg acaagatggc gagtggtcag ctaagatttt agagcttatg aaggcagttg 300
atgagtatat cccaactcct gttcgcgata ctgaaaaaga tttcttgatg cctattgaag 360
atgttttttc aatttctggt cgtggaactg ttgtaacagg tagaattgaa aaaggtgtgg 420
ttaaagtcgg cgatactatt gagatagtag gtatcaaaga tactcaaact acaacagtta 480
caggcgttga gatgtttaga aaagaaatgg atcaaggtga ggctggcgat aatgtcggtg 540
tgcttttaag aggaacaaaa aaagaagatg ttcttcgtgg tatggttctt gcaaagccta 600
gaatctatca ctcctcatac tgattttgaa gcagaagttt atattctaaa taaagatgag 660
ggcggtcgcc atactccttt ctttaacaat tatcgtccgc agttttatgt aagaacgact 720
gatgtaactg gttctattaa attagctgat ggtgttgaga tggttatgcc gggtgaaaat 780

gtaagaatta cagttagcct tatcgctcca gttgcacttg a 821

<210> 1679
<211> 783
<212> DNA
<213> Globicatella sanguis ATCC 51173

<400> 1679
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gtgttcctta catggttgtc ttcttaaaca aagttgacat ggttgacgat gaagaattat 120
tagaattagt tgaaatggaa gttcgtgatt tattatctga atacgaattc cctggagacg 180
acgttccagt aatcgctggt tcagctttaa aagctttaga aggcgaagaa caatatgaag 240
caaaagtatt agaattaatg gaagctgtag atacatacat tccagaacca gttcgtgata 300
ctgaaaaacc attcatgatg ccagttgaag atgtgttctc aatcacaggt cgtggtacag 360
ttgctactgg acgtgttgaa cgtggacaag ttaaagttgg tgacgaagtt gaaatcgttg 420
gtattgctga agaaattagc aaaacaactg taactggtgt tgaaatgttc cgtaaattat 480
tagattacgc tgaagctgga gataacattg gtgcgttatt acgtggtgtt acacgtgaac 540
aaatccaacg tggtcaagta ttagcaaaac caggaacaat tacacctcat actaaattcg 600
aggcggaagt ttacgtatta tcaaaagaag aaggtggacg tcatactcca ttcttcgcta 660
actaccgtcc tcaattctac ttccgtacaa ctgacgttac aggtgttgta gaattaccag 720
aaggtacaga aatggtaatg cctggagata acgtatcaat gacagttgaa ttaattcacc 780
caa 783

<210> 1680
<211> 823
<212> DNA
<213> Lactobacillus acidophilus ATCC 4356

<400> 1680
gctatcttag ttgttgctgc aactgatggt cctatgccac aaactcgtga acacattttg 60
cttgctcgtc aagttggtgt taactacatc gtagtattct tgaacaagtg cgatttagtt 120
gacgacccag aattgatcga cttggttgaa atggaagttc gtgacttgtt gactgaatac 180
gattaccctg gtgatgatat tccagttgtt cgtggttcag cattaaaggc tttacaaggt 240
gacaaggaag ctcaagacca aatcatgaag ttgatggaca ttgttgatga atacatccca 300
actccagaac gtcaaactga caagccattc ttgatgccag ttgaagacgt attcactatc 360
actggtcgtg gtactgttgc ttcaggtcgt atcgaccgtg gtactgttaa ggtcggtgac 420
gaagttgaaa tcgttggttt ggtagataaa gttcttaagt cagttgttac tggtttggaa 480
atgttccaca agactttgga cttaggtgaa gccggcgata acgttggtgt attgcttcgt 540
ggtgttgacc gtgatcaagt tgttcgtggt caagtattgg ctgcacccgg ctcaatccaa 600
actcataaga agtttaaggc acaagtttat gttttgaaga aggacgaagg tggtcgtcac 660
actccattct tctcagacta ccgtccacaa ttctacttcc acaccactga tattactggt 720
gaaattgaat tgccagaagg tactgaaatg gttatgcctg gtgataacac tgaattcact 780
gttactttga tcaagccagc tgccatcgaa aagggtacta agt 823

<210> 1681
<211> 793
<212> DNA
<213> Leuconostoc mesenteroides subsp. dextranicum ATCC 19255

<400> 1681
gctgcaactg atggtcctat gccacaaaca cgtgaacaca tcttgttggc acgtcaagtt 60
ggtgttgact acttggttgt cttcttgaac aagactgatt tggttgatga tgaagaatta 120
gttgaattgg ttgaaatgga agttcgtgaa ttgttgtcag aatatgactt cccaggtgac 180
gatattcctg tacttaaggg ttcagctttg aaggctttgg aaggtgatcc tgaacaagtt 240
aaggttatcg aagaattgat ggatactgtt gattcataca ttccagaacc agcacgtgaa 300
acagacaagc cattcttgat gcctgtcgaa gacgtcttca caatcactgg tcgtggtaca 360
gttgcttctg gtcgtgttga ccgtggtgta ttgactacag gaactgaaat tgaaatcgtt 420
ggtttgaagg acgaagttca aaagactact gttacaggta tcgaaatgtt ccgtaagact 480
ttggaagaag ctcaagcggg tgataacatt ggtgcattgt tgcgtggtgt tgatcgtagc 540
aacattgaac gtggtcaagt tttggcaaag ccaggttcaa ttaagacaca caagaagttc 600
aaggctgaag tttatgtctt gacaaaggaa gaaggtggtc gtcatacacc attcttcact 660
aactaccgtc cacaattcta cttccacaca actgatgtta caggtgttgt tgaattgcca 720
gccggtgttg aaatggttat gcctggtgac caagtgacat tcgaaatcga attgatctca 780

ccagttgcca tcg 793

<210> 1682
<211> 796
<212> DNA
<213> Prevotella buccalis ATCC 35310

<400> 1682
tatccttgta gttgctgcta ctgatggtcc tatgccacag acacgtgagc acgtgctttt 60
ggctcgtcag gtaaacgttc ctcgtttggt tgtgttcatg aacaagtgtg acttggtaga 120
agacgaagag atgcttgaac tcgttgaaat ggagttgcgc gaacttcttg agcaatacga 180
attcgaagag gatactccaa tcgttcgtgg ttctgcactg ggtgcattga atggtgttga 240
caagtgggtt gacagcgtga tgacgttgat ggacactgtt gacgagtgga ttcaagagcc 300
agagcgtgac cttgacaaac ctttcttgat gccagtagag gacgtgttct ctatcacagg 360
tcgtggtacc gttgtaacag gacgtattga gactggtaag gtaaaggttg gcgacgagat 420
tcagttgctc ggtcttggtg aggacaagaa gtctgttgta acaggcgttg aaatgttccg 480
taagattctt tctgaaggtg aagcaggtga taacgtagga cttttgctcc gcggtatcga 540
taaggatgaa gtaaagcgtg gtatggttgt tgtacaccca ggtgccatca ctcctcacga 600
tcacttcaag gcttccatct atgtattgaa gaaggaagag ggtggacgtc atactccatt 660
cggaaacaag tatcgtcctc agttctatct ccgtacaatg gactgtacag gtgagatcac 720
tttgccagaa ggcgtagaga tggtgatgcc tggtgacaac gtagagattg aggttacctt 780
gatttacaag gttgcc 796

<210> 1683
<211> 800
<212> DNA
<213> Ruminococcus bromii ATCC 27255

<400> 1683
ggttgctgct actgacggcc cgatgcctca gactcgtgag cacgttctgc tcgctcgtca 60
ggtgggtgtg cccgccatcg tcgtcgccct caacaagtgc gacatggttg acgatgagga 120
gctcattgag cttgtcgaga tggaggtccg cgagctgctg acctcgcagg agttcgacgg 180
cgacaactgc cctgtcgttc gcatctccgc cttccaggcc ctccagggtg acgagaagtg 240
gacccagtcg atcctcgacc tcatggacgc cgtggacgag tacatcccgc agcctgagcg 300
cgatctcgac aagcccttcc ttatgccgat cgaggacgtc ttcaccatca ccggccgtgg 360
caccgttgtc accggtcgtg tcgagcgtgg tgtcgtcaag actggcgaag aggtcgagat 420
cgtcggtatc cacgagaaga cccagaagac caccgttacc ggtgtcgaga tgttccgtaa 480
gatcctcgac gagggccgcg ctggtgagaa cgtcggcgtt ctgctccgtg gcaccaagaa 540
ggaggacgtc gttcgcggca tggtcctctc caagcctggt tccaccaccc cccacaccga 600
cttcgagggc caggtctacg tcctcaagaa ggatgagggt ggccgccaca agccgttctt 660
ctcccattac agcccccagt tctacttccg taccacggac gtgactggca ctgttgagct 720
ccccgagggc accgagatgg tcatgcctgg cgacaacacc gacatgactg tgcacctgat 780
tcacccggtt gccatggagg 800

<210> 1684
<211> 545
<212> DNA
<213> Paracoccidioides brasiliensis ATCC 32075

<400> 1684
tgtctttatt caggaactga ttgtatgttt cttctcgttt atatataaca taccttctat 60
atttcatgtg tttctaacga actcatagaa caacattgcc aaggctcacg gtggttactc 120
cgtgttcacc ggtgtcggtg agcgtacccg tgaaggaaac gatctgtacc acgaaatgca 180
ggaaacccgc gtcatccagc tggacggcga gtccaaagtc gccctcgtct tcggccagat 240
gaacgagccc cccggagccc gtgcccgtgt tgccctgacc ggtctgacca tcgctgaata 300
cttccgtgac gaagaaggcc aagatggtac gttcccccat tccatatatg tttcttgtgc 360
gctttgccaà ctaaacacca cctagtgctc ctcttcatcg acaatatctt ccgcttcacc 420
caagccggtt ccgaagtgtc cgccctgcta ggccgcatcc cctccgccgt cggctatcaa 480
cccaccctcg ccgtcgacat gggtggtatg caggagcgca tcacaactac aacaaaaggc 540
tccat 545

<210> 1685

<211> 1020
<212> DNA
<213> Candida norvegica ATCC 36586

<400> 1685
gatatcgctt tatggaaatt cgaaactcca aaattccacg ttacygttat cgatgctcca 60
ggtcacagag atttcatcaa gaatatgatt acyggtacct cccaagctga ttgtgctatt 120
ttaatcattg ctggtggtgt tggtgaattc gaagctggta tctccaaaga tggtcaaacc 180
agagaacacg ctttgttagc tttcacctta ggtgtyaaac aattgattgt tgccgttaac 240
aaaatggact ctgtcaaatg ggatcaatcc cgtttcgaag aaatcgtcaa ggaagcttcc 300
ggtttcatca agaaagttgg ttacaaccca aagactgttc cattcgttcc aatctctggt 360
tggaatggtg acaacatgat tgaagtytcw gctaacgcyc catggtacaa aggttgggaa 420
aaggaaacca aagcyggtgt cgttaaaggt aaaactttat tagaagccat tgatgctatt 480
gaaccacctt caagaccaac tgaaaaacca ttgagattgc cattgcaaga tgtctacaag 540
attggtggta tcggaaccgt accagtcggt aragttgaaa ccggtgtcat taaaccaggt 600
atgattgtta ctttcgcccc agccggtgtt actactgaag tcaaatctgt tgaaatgcat 660
cacgaacaat tagaagctgg ttacccaggt gacaatgttg gtttcaacgt caagaatgtt 720
tcagttaaag aaatcagaag aggtaahgtt gctggtgact ccaagaacga tccaccaaaa 780
ggtgctgaat ctttcaacgc tcaagttatt gtcttgaacc atccaggtca aatctytgct 840
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ttggaaaaga ttgacagaag atccggtaag aaattggaag aaaatccaaa attcatcaaa 960
tctggtgacg ctgctawtgt caaatttgtt ccatwtaaac cattrtgtgt tgaagctttc 1020

<210> 1686
<211> 929
<212> DNA
<213> Aspergillus nidulans strain WSA-176

<400> 1686
tgctgcttcc gatggtcaaa tgtacgattg atattccttc cagccagtca ggataacagc 60
tgataccagt tgcaaatagg ccccagactc gtgagcactt gttgcttgcc cgtcaggttg 120
gtgtccagaa gatcgttgtc ttcgtcaaca aggttgacgc tgtcgatgac cctgagatgt 180
tggagcttgt tgagctcgag atgcgtgagc tcctcaacac ttacggtttc gagggagagg 240
agacccctat catcttcggt tccgccctgt gcgctctcga aggccgccgc gaggacattg 300
gtactcagcg tattgactcc ctcctcgagg ccgttgacac ttggatccct acccccagc 360
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gtaccgtcgc ctctggtcgt gtcgagcgtg gtctcctcaa gaaggatacc gaagttgaaa 480
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gctgcgatga gtctcgtgct ggtgacaact ccggtcttct cctccgtggt atccgtcgtg 600
aggatgttcg tcgtggtatg gtcatcgctg cccctggctc catcaaggcc tccaagaagt 660
tcatggtctc catgtacgtc ttgactgagg ctgaaggtgg ccgcaagaac ggcttcggtg 720
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ttgatcacgt ccctaactgt tactttagac gaggcttgcg accttcattt ccctgatgag 840
gccgacaagg accgccacgt catgcccggt gacaacgtcg aaatggtcct caacctcaac 900
aaccccgttg ctgctgaggc tggacagcg 929

<210> 1687
<211> 951
<212> DNA
<213> Aspergillus terreus strain WSA-174

<400> 1687
tgccgcttcc gatggtcaga tgtacgctca agccccagtt tccatataaa cataaacgat 60
ctatcatcag cacaacgctg acttcttcgc ttccaggccc cagacccgtg agcacttgct 120
gttggcccgt caggtcggtg tccagaagat cgtggtcttc gtcaacaagg tcgatgccgt 180
tgatgacccg gagatgttgg agctcgttga gctggaaatg cgcgagctcc tgaccagcta 240
cggattcgag ggtgaagaga cccccatcat cttcggttct gctctctgcg ctcttgaggg 300
ccgccgtcct gagattggta ctgagaagat tgacgagctg atgcacgccg tcgacacctg 360
gatccccacc ccccagcgtg acctcgacaa gcccttcctg atgtccgtcg aggaagtctt 420
ctccattgct ggtcgtggta ccgtcgcttc cggccgtgtc gagcgtggta ttctgaagaa 480
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catcgagacc ttcaagaagt cttgcgacga gtctcgcgct ggtgacaact ctggtctcct 600
cctccgtggt atccgtcgtg aggatgttcg gcgtggtatg gtcattgctg ctcctggcag 660
caccaaggcc cacgacaagt tccttgtctc tatgtacgtc ctcactgagg ctgagggtgg 720

ccgtcgtacc ggattcggta ccaactaccg cccccaggtc ttcatccgta ctgccggtaa 780
gtgttcctgg aagaggcttt gagcctatat aggatctcgg ataatttact aatccaccat 840
atagatgagg ccgctgacct cagcttcccc gacaacgatg actcccgccg tgtcatgccc 900
ggtgacaacg ttgagatggt cctgaagacc caccgccccg tggctgctga g 951

<210> 1688
<211> 823
<212> DNA
<213> Candida norvegica ATCC 36586

<400> 1688
cgttgccgct accgatggtc aaatgcctca aactagagaa catttgctat tggctagaca 60
ggttggtgtt caacacattg tcgtgtttgt taacaaggtt gacactattg atgatccaga 120
aatgttggaa ttggttgaaa tggaaatgag agagttgatt gccacttatg gtttcgatgg 180
tgataacacc ccagttatca tgggttctgc tctatgtgct ttggaaggtc gtgaacctga 240
aatcggtgct caatcaatcg acagattgtt ggaagccgtt gatgaataca ttccaactcc 300
aactagagat ttggaaaaac cattcttgat gggtgttgaa gatgtcttct ccatttctgg 360
tagaggtacc gtctgtaccg gtcgtgttga aagaggtaac ttgaagaaag gtgatgaaat 420
cgaaattgtc ggctacaaca agactccaat caaaaccacc gtcaccggta ttgagatgtt 480
caaaaaggaa ttagaccaag ctatggctgg tgataactgt ggtatcttat tacgtggtgt 540
taagagagat gatatcaaga gaggtatggt tatctctaaa gtcaacaccg tttccgcaca 600
caccaaattc ttggcctctt tatacgtctt gactaaagaa gaaggtggtc gtcattcagg 660
ttttgctgaa aactacagac ctcaattgtt catcagaacc ggtgatgtca ctgttacttt 720
aaccttccca gaagatgctg atcactctca gcaagtctta ccaggtgaca acgttgaaat 780
ggaatgtacc ttggttcatc caactgctct tgaaaccggt caa 823

<210> 1689
<211> 803
<212> DNA
<213> Candida parapsilosis ATCC 201076

<400> 1689
gctgctactg acggtcaaat gcctcaaact agggaacata tgttgttggc gagacaagtt 60
ggtatccaaa acttggttgt ttttgttaac aaagttgata ccattgatga cccagaaatg 120
ttggaattgg ttgaaatgga aatgagggaa ttattgagct cttatgggtt tgatggtgaa 180
aacactccag ttatcatggg atcagccttg tgtgctttag aaggtaaaca accagaaatc 240
ggtgttcaag ccattcaaaa attattggat gctgttgatg aatatattcc aactccagaa 300
agagatgctg accaaccatt tttgatgcca gtggaagatg tgttttctat ttcaggtaga 360
ggaaccgttg tcaccggaag agttgaaaga ggtatgttga agaaaggtga agaagtakaa 420
gtcattggtg aaaactcatt taaggctact tccacgggta ttgagatgtt caaaaaggaa 480
ttggatgccg ctatggccgg tgacaactgt ggtattttgt tgagaggtgt caagagagac 540
gaagtcaaga ggggtatggt tttggccaaa ccaggtacca ccaccccaca ccaaaagttt 600
ttggcttcca tttatatctt gactgctgaa gaaggtggac gtagtacccc tttcagtgaa 660
ggatacaaac cacaatgttt ctttagaact agtgatgtta ccacgacatt tactttccca 720
gaaggtgaag gtgttgacca ctcacaaatg gttatgccag gagrcaatgt tgaaatggtg 780
ggaactttaa tcaagaaagc tcc 803

<210> 1690
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1690
caggtcctgt tgcgactgaa gaa 23

<210> 1691
<211> 25
<212> DNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1691
cacagataaa cctgagtgtg ctttc 25

<210> 1692
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1692
ggtgagaact gtggtatctt actt 24

<210> 1693
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1693
catttcaacg ccttctttca actg 24

<210> 1694
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1694
aaggcaagga tgacaacggc 20

<210> 1695
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1695
acgatttcca cttcttcctg g 21

<210> 1696
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1696
atgttcctgt agttgctgga 20

<210> 1697
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1697
tttcttcagc aataccaaca ac 22

<210> 1698
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1698
ggaatcaaca gatggtttac aaa 23

<210> 1699
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1699
gcatcttctg ggaaaggtgt 20

<210> 1700
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1700
aagatgcgga aagaagcgaa 20

<210> 1701
<211> 23
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1701
attatggatc agttcttgga tca 23

<210> 1702
<211> 213
<212> DNA
<213> Streptococcus gordonii strain Challis V288

<400> 1702
ttcatagacg ctgagcacgc tttggatcca tcttacgcgg ctgctctagg tgtaaatatt 60
gatgagctgt tgctatctca accagattct ggtgagcaag gtttagaaat tgcaggaaaa 120
ttgattgact ctggggcagt tgatttagtt gtcatcgact ctgttgcagc tcttgtacca 180
cgtgcggaaa tcgatggaga tatcggtgat agc 213

<210> 1703
<211> 692
<212> DNA
<213> Streptococcus mutans strain GS-5

<400> 1703
gggccggaat cttctggtaa gacaactgtc gctcttcatg ctgctgctca ggcgcaaaaa 60
gatggcggta ttgccgcttt cattgatgca gaacatgccc ttgatccagc ctatgctgct 120
gctcttggcg ttaatattga tgagcttttg ctttcacaac cagattcagg agaacagggt 180
cttgaaattg cagggaaatt gattgattct ggcgctgttg atttagttgt tgttgactca 240
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aaaaccattg ctatttttat taatcaattg cgggaaaaag ttggtattat gtttggtaat 420
ccagaaacaa cccctggcgg gcgtgccttg aagttttatt cttctgtgcg tcttgatgtc 480
cgcggcaata ctcaaattaa aggaaccggg gaacaaaaag acagcaatat tggtaaagag 540
accaaaatta aagttgttaa aaataaagtt gctccaccat ttaaggaagc ttttgtagaa 600
attatatatg gtgaaggcat ttctcgtaca ggtgaattag ttaagattgc cagtgatttg 660
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<210> 1704
<211> 1204
<212> DNA
<213> Streptococcus pneumoniae

<400> 1704
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cgtttgggtg aacgtgcgga gcaaaaggtg caagtgatga gctcaggttc tttagctctt 180
gacattgccc ttggctcagg tggttatcct aagggacgta tcatcgaaat ctatggccca 240
gagtcatctg gtaagacaac ggttgccctt catgcagttg cacaagcgca aaaagaaggt 300
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attaaggttg taaaaaataa ggtagctcca ccgtttaagg aagccgtagt tgaaattatg 840
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tcga 1204

<210> 1705
<211> 981
<212> DNA
<213> Streptococcus pyogenes strain NZ131

<400> 1705
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cgtatcatcg aaatctatgg tccagagtct tccggtaaaa cgactgtggc tttacatgct 120
gtagcacaag ctcaaaaaga aggtggaatc gcagccttta tcgatgccga gcatgcgctt 180
gatccagctt atgctgctgc gcttggggtt aatattgatg aacttctctt gtctcaacca 240
gattctggag aacaaggact tgaaattgca ggtaaattga ttgattctgg tgcggttgac 300
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ggcgatagcc atgtcggatt gcaagcacgt atgatgagtc aggccatgcg taaattatca 420
gcttctatta ataaaacaaa aactatcgca atctttatca accaattgcg tgaaaaagtt 480
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aaaattgctt ctgatttgga cattatccaa aaagcaggtg cttggttctc ttataatggt 780
gagaagattg gccaaggttc tgaaaatgct aagcgttatt tggccgatca tccacaattg 840
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ggtattgaaa ttgaagatta a 981

<210> 1706
<211> 312
<212> DNA
<213> Streptococcus salivarus subsp. thermophilus

<400> 1706
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ggtgagcaag gtctcgaaat tgcaggtaag ctgattgact ctggtgcagt ggatttagtt 120
gttgttgact cagttgcggc cttcgtacca cgtgcagaaa ttgatggaga tagtggtgac 180
agtcatgtag gacttcaagc gcgtatgatg agtcaagcca tgcgtaaact ttctgcatct 240
attaataaaa caaaaacgat tgctatcttt attaaccagt tgcgtgaaaa agttggtatc 300
atgtttggta ac 312

<210> 1707
<211> 831
<212> DNA
<213> Escherichia coli

<400> 1707
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gaaggttgtt ttttacttta cgatgcatcc acaaacgctg aaattgctca attcaataaa 180
gcaaagtgtg caacgcaaat ggcaccagat tcaactttca agatcgcatt atcacttatg 240
gcatttgatg cggaaataat agatcagaaa accatattca aatgggataa aacccccaaa 300
ggaatggaga tctggaacag caatcataca ccaaagacgt ggatgcaatt ttctgttgtt 360
tgggtttcgc aagaaataac ccaaaaaatt agattaaata aaatcaagaa ttatctcaaa 420
gattttgatt atggaaatca agacttctct ggagataaag aaagaaacaa cggattaaca 480
gaagcatggc tcgaaagtag cttaaaaatt tcaccagaag aacaaattca attcctgcgt 540
aaaattatta atcacaatct cccagttaaa aactcagcca tagaaaacac catagagaac 600
atgtatctac aagatctgga taatagtaca aaactgtatg ggaaaactgg tgcaggattc 660
acagcaaata gaaccttaca aaacggatgg tttgaagggt ttattataag caaatcagga 720
cataaatatg tttttgtgtc cgcacttaca ggaaacttgg ggtcgaattt aacatcaagc 780
ataaaagcca agaaaaatgc gatcaccatt ctaaacacac taaatttata a 831

<210> 1708
<211> 846
<212> DNA
<213> Enterococcus faecalis strain HH22

<400> 1708
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tatgctttag atactaaaag tggtaaggaa gtaaaattta attcagataa gagatttgcc 180
tatgcttcaa cttcaaaagc gataaatagt gctattttgt tagaacaagt accttataat 240
aagttaaata aaaaagtaca tattaacaaa gatgatatag ttgcttattc tcctatttta 300
gaaaaatatg taggaaaaga tatcacttta aaagcactta ttgaggcttc aatgacatat 360
agtgataata cagcaaacaa taaaattata aaagaaatcg gtggaatcaa aaaagttaaa 420
caacgtctaa aagaactagg agataaagta acaaatccag ttagatatga gatagaatta 480
aattactatt caccaaagag caaaaaagat acttcaacac ctgctgcttt cggtaagact 540
ttaaataaac ttatcgcaaa tggaaaatta agcaaagaaa acaaaaaatt cttacttgat 600
ttaatgttaa ataataaaag cggagatact ttaattaaag acggtgttcc aaaagactat 660
aaggttgctg ataaaagtgg tcaagcaata acatatgctt ctagaaatga tgttgctttt 720
gtttatccta agggccaatc tgaacctatt gttttagtca tttttacgaa taaagacaat 780
aaaagtgata agccaaatga taagttgata agtgaaaccg ccaagagtgt aatgaaggaa 840
ttttaa 846

<210> 1709
<211> 555
<212> DNA
<213> Pseudomonas aeruginosa

<400> 1709
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ccgactcttg atgaagtgct ggaacactac ctgcccagag cgatggcgga agagtccgta 180
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cagtctctgg ctgacccgac acagttgaac aaaggcctag gaacaaggct tgtccgcgct 360
ctcgttgaac tactgttctc ggaccccacc gtgacgaaga ttcagaccga cccgactccg 420
aacaaccatc gagccatacg ctgctatgag aaggcaggat tcgtgcggga gaagatcatc 480
accacgcctg acgggccggc ggtttacatg gttcaaacac gacaagcctt cgagagaaag 540
cgcggtgttg cctaa 555

<210> 1710
<211> 732
<212> DNA
<213> Staphylococcus aureus

<400> 1710
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gaaatattga atcacacgaa tatcagtaaa caagacaacg taatagaaat cggatcagga 120
aaaggacatt ttaccaaaga gctagtcaaa atgagtcgat cagttactgc tatagaaatt 180
gatggaggct tatgtcaagt gactaaagaa gcggtaaacc cctctgagaa tataaaagtg 240
attcaaacgg atattctaaa attttccttc ccaaaacata taaactataa gatatatggt 300
aatattcctt ataacatcag tacggatatt gtcaaaagaa ttacctttga aagtcaggct 360
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gctttgggtt tactattaat ggtggagatg gatataaaaa tgctcaaaaa agtaccacca 480
ctatattttc atcctaagcc aagtgtagac tctgtattga ttgttcttga acgacatcaa 540
ccattgattt caaagaagga ctacaaaaag tatcgatctt ttgtttataa gtgggtaaac 600
cgtgaatatc gtgttctttt cactaaaaac caattccgac aggctttgaa gcatgcaaat 660
gtcactaata ttaataaact atcgaaggaa caatttcttt ctattttcaa tagttacaaa 720
ttgtttcact aa 732

<210> 1711
<211> 738
<212> DNA
<213> Escherichia coli strain BM2570

<400> 1711
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ataataaaac aattgaattt aaaagaaacc gataccgttt acgaaattgg aacaggtaaa 120
gggcatttaa cgacgaaact ggctaaaata agtaaacagg taacgtctat tgaattagac 180

agtcatctat tcaacttatc gtcagaaaaa ttaaaatcga atactcgtgt cactttaatt 240
caccaagata ttctacagtt tcaattccct aacaaacaga ggtataaaat tgttgggaat 300
attccttacc atttaagcac acaaattatt aaaaaagtgg tttttgaaag ccatgcgtct 360
gacatctatc tgattgttga agaaggattc tacaagcgta ccttggatat tcaccgaaca 420
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tgctttcatc ctaaaccaag agtaaacagt gtcttaataa aacttacccg ccataccaca 540
gatgttccag ataaatattg gaagctatat acgtactttg tttcaaaatg ggtcaatcga 600
gaatatcgtc aactgtttac taaaaatcag tttcatcaag caatgaaaca cgccaaagta 660
aacaatttaa gtaccgttac ttatgagcaa gtattgtcta tttttaatag ttatctatta 720
tttaacggga ggaaataa 738

<210> 1712
<211> 735
<212> DNA
<213> Staphylococcus aureus strain RN451

<400> 1712
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aaaataatga caaatataag attaaatgaa catgataata tctttgaaat cggctcagga 120
aaagggcatt ttacccttga attagtacag aggtgtaatt tcgtaactgc cattgaaata 180
gaccataaat tatgcaaaac tacagaaaat aaacttgttg atcacgataa tttccaagtt 240
ttaaacaagg atatattgca gtttaaattt cctaaaaacc aatcctataa aatatttggt 300
aatatacctt ataacataag tacggatata atacgcaaaa ttgtttttga tagtatagct 360
gatgagattt atttaatcgt ggaatacggg tttgctaaaa gattattaaa tacaaaacgc 420
tcattggcat tatttttaat ggcagaagtt gatatttcta tattaagtat ggttccaaga 480
gaatattttc atcctaaacc tagagtgaat agctcactta tcagattaaa tagaaaaaaa 540
tcaagaatat cacacaaaga taaacagaag tataattatt tcgttatgaa atgggttaac 600
aaagaataca agaaaatatt tacaaaaaat caatttaaca attccttaaa acatgcagga 660
attgacgatt taaacaatat tagctttgaa caattcttat ctcttttcaa tagctataaa 720
ttatttaata agtaa 735

<210> 1713
<211> 1029
<212> DNA
<213> Enterococcus faecalis strain V583

<400> 1713
atgaataaaa taaaagtcgc aattatcttc ggcggttgct cggaggaaca tgatgtgtcg 60
gtaaaatccg caatagaaat tgctgcgaac attaatactg aaaaattcga tccgcactac 120
atcggaatta caaaaaacgg cgtatggaag ctatgcaaga agccatgtac ggaatgggaa 180
gccgatagtc tccccgccat attctccccg gataggaaaa cgcatggtct gcttgtcatg 240
aaagaaagag aatacgaaac tcggcgtatt gacgtggctt tcccggtttt gcatggcaaa 300
tgcggggagg atggtgcgat acagggtctg tttgaattgt ctggtatccc ctatgtaggc 360
tgcgatattc aaagctccgc agcttgcatg gacaaatcac tggcctacat tcttacaaaa 420
aatgcgggca tcgccgtccc cgaatttcaa atgattgaaa aaggtgacaa accggaggcg 480
aggacgctta cctaccctgt ctttgtgaag ccggcacggt caggttcgtc ctttggcgta 540
accaaagtaa acagtacgga agaactaaac gctgcgatag aagcagcagg acaatatgat 600
ggaaaaatct taattgagca agcgatttcg ggctgtgagg tcggctgcgc ggtcatggga 660
aacgaggatg atttgattgt cggcgaagtg gatcaaatcc ggttgagcca cggtatcttc 720
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gcagacattc cggtcgagga acgaaatcgg gtgcaagaaa cggcaaagaa agtatatcgg 840
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gttctaaacg aggtcaatac cctgcccggt tttacatcgt acagccgcta tccacgcatg 960
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gagaggtga 1029

<210> 1714
<211> 818
<212> DNA
<213> Campylobacter jejuni subsp. jejuni ATCC 33292

<400> 1714
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ttatagaaat ttatggrcct gaaagttcag gtaaaaccac tctaactcta cacattatcg 120
cagaatgcca aaaagcaggt ggrgtttgtg cttttatcga tgcagaacat gcrcttgatg 180
traaatatgc taaaaatttg ggtgtaaata cagatgattt gtatgtttct cagcctgatt 240
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tcgtagtaga tagcgttgca gcgcttaccc caaaagcaga aattgaaggc gatatgggtg 360
atcaacatgt aggacttcaa gcaagactta tgtctcaagc tctaagaaaa cttacaggta 420
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ttgatgtgat gtttggagag ggtttaagcc gtgaaggtga attgatcgat tatggtgtaa 720
aacttgatat cgtagataaa agtggtgcgt ggttttctta taaagataaa aaacttggac 780
aaggtagaga aaattcaaaa gctttcttaa aagaaaac 818

<210> 1715
<211> 809
<212> DNA
<213> Abiotrophia adiacens ATCC 49175

<400> 1715
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cttattatca cgtcaagtag gtgttcctta catcgttgta ttcttaaaca aagttgacat 120
ggttgacgat gaagaattat tagaattagt agaaatggaa gttcgtgact tattatcaga 180
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tccaactcca gaacgygacg ttgacaaacc attcatgatg ccagttgaag acgtgttctc 360
aatcacaggt cgtggtactg ttgctacagg tcgtgttgaa cgtggacaag ttcgtgttgg 420
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acgtggtgtt acacgtgaca acatcgaacg tggacaagtt cttgctaaac caggaacaat 600
cactccacat actaaattca aagctgaagt ttacgtatta actaaagaag aaggtggacg 660
tcatactcca ttcttctcta actaccgtcc tcaattctac ttccgtacaa cagacatcac 720
tggtgtttgt gtgttaccag aaggcgttga aatggtaatg cctggtgata acgtaactat 780
ggaagttgaa ttaattcacc cagtagcga 809

<210> 1716
<211> 817
<212> DNA
<213> Abiotrophia defectiva ATCC 49176

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tcacactcca ttcttctcta actaccgtcc acaattctac ttccgtacaa ctgacgtaac 720
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ggttgttgaa ttgatccacc caatcgcgat cgaagaa 817

<210> 1717
<211> 814
<212> DNA
<213> Corynebacterium accolens ATCC 49725

<400> 1717
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caccccgytc atgaacaact accgtcctca gttctacttc cgcaccaccg acgttaccgg 720
tgttgtgaac ctgcctgagg gcaccgagat ggttatgcct ggcgacaacg ttgagatgtc 780
tgttgagctc atccagcctg ttgctatgga cgag 814

<210> 1718
<211> 814
<212> DNA
<213> Corynebacterium genitalium ATCC 33031

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ggttgatgat gaggagctgc tggagctcgt cgagatggag gtccgcgagc tgctggctga 180
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gatgttcaac aagctgctgg acaccgcaga ggctggcgac aacgccgcac tgctgctgcg 540
tggcctgaag cgcgaagatg ttgagcgtgg tcagatcgtt gctaagccgg gcgagtacac 600
cccgcacacc gagttcgagg gctccgtcta cgttctgtcc aaggacgagg gtggccgcca 660
caccccgttc ttcgacaact accgtccgca gttctatttc cgcaccaccg acgttaccgg 720
tgttgtgaag ctgccggagg gcaccgagat ggttatgccg ggcgacaacg ttgacatgtc 780
cgtcaccctg atccagccgg ttgctatgga cgag 814

<210> 1719
<211> 814
<212> DNA
<213> Corynebacterium jeikeium ATCC 43216

<400> 1719
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ggttgacgat gaggagctgc tggagctcgt cgagatggag gtccgcgagc tgctggctga 180
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cgacgagaag tgggctaacc agattctcga gctgatgcag gcttgcgacg agtctatccc 300
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<211> 748
<212> DNA
<213> Corynebacterium pseudodiphtheriticum ATCC 10700

<400> 1720
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cacccacaag aagttcgaag gttccgtcta cgttctttcc aaggacgagg gcggccgcca 660
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tgttgttacc ctgcctgagg gcaccgag 748

<210> 1721
<211> 813
<212> DNA
<213> Corynebacterium striatum ATCC 6940

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<210> 1722
<211> 817
<212> DNA
<213> Enterococcus avium ATCC 14025

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cactccacat acaaaattct ctgcagaagt ttatgttcta actaaagaag aaggtggacg 660
tcatactcca ttcttcacta actaccgtcc tcagttctac ttccgtacaa ctgacgtaac 720
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ggaagttgaa ttgatycacc caatygcggt agaagac 817

<210> 1723
<211> 823
<212> DNA
<213> Gardnerella vaginalis ATCC 14018

<400> 1723
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ggttgacgac gaagagctta tcgatctcgt tgaagaagag gtccgtgacc tcctcgaaga 180
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<210> 1724
<211> 817
<212> DNA
<213> Listeria innocua ATCC 33090

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tactccacac actaacttca aagctgaaac ttatgtttta actaaagaag aaggtggacg 660
tcacactcca ttcttcaaca actaccgccc acaattctat ttccgtacta ctgacgtaac 720
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tgcagttgaa ctaattgcac caatcgctat cgaagac 817

<210> 1725
<211> 818
<212> DNA
<213> Listeria ivanovii ATCC 19119

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ttactccaca tactaacttc aaagctgaaa cttatgtttt aactaaagaa gaaggtggac 660
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ttgcagttga actaattgca ccaatcgcta tcgaagac 818

<210> 1726
<211> 817
<212> DNA
<213> Listeria monocytogenes strain LSPQ 5093202

<400> 1726
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ggttgacgat gaagaattac tagaattagt tgaaatggaa attcgtgatc tattaactga 180
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tactccacac actaacttca aagctgaaac ttatgtttta actaaagaag aaggtggacg 660
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tgcagttgaa ctaattgcac caatcgctat cgaagac 817

<210> 1727
<211> 817
<212> DNA
<213> Listeria seeligeri ATCC 35967

<400> 1727
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cttactttca cgtcaagttg gtgttccata catcgttgta ttcatgaaca aatgtgacat 120
ggttgacgat gaagaattac ttgaattagt tgaaatggaa attcgtgatc tattaactga 180
atatgaattc cctggtgatg acattcctgt aatcaaaggt tcagctctta aagcacttca 240
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tccaactcca gaacgtgata ctgacaaacc attcatgatg ccagttgagg atgtattctc 360
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tactccacat actaacttca aagctgaaac ttatgtttta actaaagaag aaggtggacg 660
tcacactcca ttcttcaaca actaccgccc acaattctat ttccgtacta ctgacgtaac 720
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tgcagttgaa ctaattgcac caatcgctat cgaagac 817

<210> 1728
<211> 814
<212> DNA
<213> Staphylococcus aureus ATCC 25923

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aggcgatgct caatacgaag aaaaaatctt agaattartg gaagctgtag atacttacat 300
tccaactcca gaacgtgatt ctgacaaacc attcatgatg ccagttgagg acgtattctc 360
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aatgttccgt aaattattag actacgctga agctggtgac aacattggtg cattattacg 540
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cactccattc ttctcaaact atcgtccaca attctatttc cgtactactg acgtaactgg 720
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<210> 1729
<211> 817
<212> DNA
<213> Staphylococcus saprophyticus ATCC 15305

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ggttgacgay gaagaattat tagaattrgt agaaatggaa gttcgtgrct tattaagcga 180
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tcatacgcca ttcttcacta actaccgccc acaattctat ttccgtacta ctgacgtaac 720
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<210> 1730
<211> 817
<212> DNA
<213> Staphylococcus simulans ATCC 27848

<400> 1730
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<210> 1731
<211> 817
<212> DNA
<213> Streptococcus agalactiae ATCC 27591

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<210> 1732
<211> 817
<212> DNA
<213> Streptococcus pneumoniae ATCC 27336

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ggttgacgac gaagaattgc ttgaattggt tgaaatggaa atccgtgacc tattgtcaga 180
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<210> 1733
<211> 817
<212> DNA
<213> Streptococcus salivarius ATCC 7073

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<210> 1734
<211> 897
<212> DNA
<213> Agrobacterium tumefaciens

<400> 1734
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<210> 1735
<211> 885
<212> DNA
<213> Bacillus subtilis strain 168

<400> 1735
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<210> 1736
<211> 882
<212> DNA
<213> Bacteroides fragilis DSM 2151

<400> 1736
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<210> 1737
<211> 888
<212> DNA
<213> Borrelia burgdorferi strain U78183

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<210> 1738
<211> 894
<212> DNA
<213> Brevibacterium linens DSM 20425

<400> 1738
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gaggaccgcc tccgcttcgc aatccgcgaa ggtggccgca ccgtcggcgc cggt 894

<210> 1739
<211> 888
<212> DNA
<213> Chlamydia trachomatis strain F/IC-Cal-13

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<210> 1740
<211> 891
<212> DNA
<213> Fibrobacter succinogenes strain S85

<400> 1740
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<210> 1741
<211> 894

<212> DNA
<213> Flavobacterium ferrugineum DSM 13524

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<210> 1742
<211> 906
<212> DNA
<213> Helicobacter pylori strain 26695

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<210> 1743
<211> 891
<212> DNA
<213> Micrococcus luteus strain IFO 3333

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<210> 1744
<211> 891
<212> DNA
<213> Mycobacterium tuberculosis strain Erdmann

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<210> 1745
<211> 891
<212> DNA
<213> Mycoplasma genitalium strain G37

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<210> 1746
<211> 891
<212> DNA
<213> Neisseria gonorrhoeae strain MS11

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<210> 1747
<211> 891
<212> DNA
<213> Rickettsia prowazekii strain Madrid E

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<210> 1748
<211> 891
<212> DNA
<213> Salmonella choleraesuis subsp. choleraesuis strain LT2 trpE9

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<210> 1749
<211> 881
<212> DNA
<213> Shewanella putrefaciens DSM 50426

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<210> 1750
<211> 897
<212> DNA
<213> Stigmatella aurantiaca strain DW4

<400> 1750
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<210> 1751
<211> 897
<212> DNA
<213> Thiomonas cuprina strain Hoe5

<400> 1751
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<210> 1752
<211> 894
<212> DNA
<213> Treponema pallidum strain Nichols

<400> 1752
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<210> 1753
<211> 891
<212> DNA
<213> Ureaplasma urealyticum ATCC 33697

<400> 1753
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<210> 1754
<211> 909
<212> DNA
<213> Wolinella succinogenes DSM 1740

<400> 1754
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ggtgcgggt 909

<210> 1755
<211> 888
<212> DNA
<213> Burkholderia cepacia

<400> 1755
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gaagaaggtc tgcgcttcgc aatccgtgaa ggcggccgta cggtcggc 888

<210> 1756
<211> 388
<212> DNA
<213> Bacillus anthracis strain CIP 9444

<400> 1756
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aggtgttaac atcgatgaat tactattatc acaacctgat acaggggagc aaggtttaga 180
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agctcttgta ccgaaagctg aaattgaagg agacatgggt gactcacacg taggtttaca 300
agctcgtcta atgtctcaag cacttcgtaa actttcaggt gcaatcaata aatcaaaaac 360
aatcgcaatc tttattaacc aaattcgt 388

<210> 1757
<211> 388
<212> DNA
<213> Bacillus anthracis ATCC 4229

<400> 1757
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tggacaagca gcgttcattg atgctgagca tgcaatggat cctgtatatg cacaaaaact 120
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aatcgcagaa gcacttgtac gaagtggtgc ggttgatatt atcgtaattg actctgtagc 240
agctcttgta ccgaaagctg aaattgaagg agacatgggt gactcacacg taggtttaca 300
agctcgtcta atgtctcaag cacttcgtaa actttcaggt gcaatcaata aatcaaaaac 360
aatcgcaatc tttattaacc aaattcgt 388

<210> 1758
<211> 388
<212> DNA
<213> Bacillus cereus ATCC 7064

<400> 1758
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aggtgttaac atcgatgaat tactattatc acaacctgat acaggggagc aaggtttaga 180
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agctcttgta ccgaaagctg aaattgaagg agacatgggt gactcacacg taggtttaca 300
agctcgtcta atgtctcaag cacttcgtaa actttcaggt gcaatcaata aatcaaaaac 360
aatcgcaatc tttattaacc aaattcgt 388

<210> 1759
<211> 388
<212> DNA
<213> Bacillus cereus ATCC 13472

<400> 1759
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tggacaagca gcattcatcg atgcggagca cgcaatggat cctgtatatg cacaaaaatt 120
aggcgttaac atagatgaat tactattatc acagcctgat acaggggagc aaggattaga 180
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agctcttgta ccgaaagcag agattgaagg tgacatgggt gactcacacg taggtttaca 300
agcacgttta atgtcacaag cacttcgtaa gctttcagga gcaatcaaca aatcaaaaac 360
aattgcaatc tttattaacc aaattcgt 388

<210> 1760
<211> 374
<212> DNA
<213> Bacillus mycoides ATCC 6462

<400> 1760
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tcatcgatgc ggagcacgca atggatcctg tatatgcaca aaaattaggc gttaacatag 120
atgaattact attatcacag cctgatacag gggagcaagg attagaaatc gcagaagcac 180
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aagcagagat tgaaggagac atgggtgact cacacgtagg tttacaagca cgtttaatgt 300
cacaagcact tcgtaagctt tcaggagcaa tcaacaaatc aaaaacaatt gcaatcttta 360
ttaaccaaat tcgt 374

<210> 1761
<211> 381
<212> DNA
<213> Bacillus pseudomycoides NRRL BD-10

<400> 1761
ggaaagttca ggtaaaacaa cggtttcctt acatgcgatt gcagaagtgc aacgtcaagg 60
tggacaagcg gcatttattg atgcggagca tgcgatggat cctgtatatg cacaaaagtt 120
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agctcttgta ccaaaagcag aaatcgaagg ggaaatgggt gactcccacg ttggtttaca 300
agcgcgttta atgtcacaag cacttcgtaa gctttctggt gcgattaaca aatcaaaaac 360
aattgcaatc ttcattaacc a 381

<210> 1762
<211> 388
<212> DNA
<213> Bacillus thuringiensis strain HER 1410

<400> 1762
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tggacaagca gcattcatcg atgcggagca cgcaatggat cctgtatatg cacaaaaatt 120
aggcgttaac atagatgaat tactattatc acagcctgat acaggggagc aaggattaga 180
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agctcttgta ccgaaagcag agattgaagg cgacatgggt gactcacacg taggtttaca 300
agcacgttta atgtcacaag cacttcgtaa gctttcagga gcaatcaaca aatcaaaaac 360
aattgcaatc tttattaacc aaattcgt 388

<210> 1763
<211> 388
<212> DNA
<213> Bacillus thuringiensis strain HER 1418

<400> 1763
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tggacaagca gcattcattg atgcggagca cgcaatggat cctgtatatg cacaaaaatt 120
aggcgttaac atagatgaat tactattatc acagcctgat acaggggagc aaggattgga 180
aatcgcggaa gcacttgtac gaagtggtgc ggttgacatt atcgtaattg actctgtagc 240
agctcttgta ccgaaagcag agattgaagg cgatatgggt gactcacacg taggtttaca 300
agcacgttta atgtcacaag cacttcgtaa gctttcagga gcaatcaaca aatcaaaaac 360
aattgcaatc tttattaacc aaattcgt 388

<210> 1764
<211> 358
<212> DNA
<213> Klebsiella oxytoca ATCC 33496

<400> 1764
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gaacaaagcc tataaaaaat ctgcccgtgt cgtgggtgac gtcatcggta aataccaccc 180
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ttacatgctg gtagatggcc agggtaactt tggttcggtc gacggcgact ccgccgcagc 300
gatgcgttat acggaaatcc gtatgtcgaa gatcgcccat gaactgatgg ccgacctc 358

<210> 1765
<211> 365
<212> DNA
<213> Klebsiella pneumoniae subsp. ozaenae ATCC 11296

<400> 1765
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cgctgcgtta catgctggtg gacggccagg gtaactttgg ttccatcgac ggcgactccg 300
ccgcggcgat gcgttatacc gaaattcgtc tggcgaaaat cgctcatgag ctgatggccg 360
atctt 365

<210> 1766
<211> 344
<212> DNA
<213> Klebsiella planticola ATCC 33531

<400> 1766
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cgagatggcc tgaaaccggt acaccgtcgc gtactttacg ccatgaacgt attgggcaat 120
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gcagcgatgc gttatacgga aatccgtatg tcgaaaatcg ccca 344

<210> 1767
<211> 345
<212> DNA
<213> Klebsiella pneumoniae ATCC 27336

<400> 1767
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gcgatgcgtt ataccgaaat tcgtctggcg aaaatcgctc atgag 345

<210> 1768
<211> 356
<212> DNA
<213> Klebsiella pneumoniae subsp. pneumoniae ATCC 13883

<400> 1768
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gcctgaagcc ggtacaccgt cgcgtacttt acgccatgaa cgtattgggc aatgactgga 120

acaaagccta taaaaaatca gcccgtgtcg ttggtgacgt aatcggtaaa taccacccgc 180
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acatgctggt ggacggccag ggtaactttg gttccatcga cggcgactcc gccgcggcga 300
tgcgttatac cgaaattcgt ctggcgaaaa tcgctcatga gctgatggcc gatctt 356

<210> 1769
<211> 361
<212> DNA
<213> Klebsiella pneumoniae subsp. pneumoniae ATCC 29011

<400> 1769
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<210> 1770
<211> 365
<212> DNA
<213> Klebsiella pneumoniae subsp. rhinoscleromatis ATCC 13824

<400> 1770
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tcttg 365

<210> 1771
<211> 357
<212> DNA
<213> Klebsiella terrigena ATCC 33257

<400> 1771
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atgcgttata cggaaatccg tatgtcgaaa atcgcccacg agctgatggc cgacctc 357

<210> 1772
<211> 968
<212> DNA
<213> Legionella pneumophila strain pneumophila ATCC 33152

<400> 1772
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ccagacgc 968

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<211> 967
<212> DNA
<213> Proteus mirabilis ATCC 25933

<400> 1773
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<210> 1774
<211> 978
<212> DNA
<213> Providencia rettgeri ATCC 9250

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actcgtcgta cgattttc 978

<210> 1775
<211> 978
<212> DNA
<213> Proteus vulgaris ATCC 13315

<400> 1775
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actcgtcgta ctatttttt 978

<210> 1776
<211> 940
<212> DNA
<213> Yersinia enterocolitica ATCC 9610

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<210> 1777
<211> 668
<212> DNA
<213> Klebsiella oxytoca ATCC 13182

<400> 1777
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gggccggatt atcctaccga agcggaaatc attacccccc gtgccgaaat ccgcaaaatc 600
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gtggtgat 668

<210> 1778
<211> 714
<212> DNA
<213> Klebsiella oxytoca ATCC 33496

<400> 1778
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ccagaatggc cgcggttcgg tgcggatgcg cgcggtatgg gccaaagaag acggcgcggt 660
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<210> 1779
<211> 722
<212> DNA
<213> Klebsiella pneumoniae subsp. ozaenae ATCC 11296

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tcagcgcgct gccgcatcag gtctccggcg ccaaagtgct ggagcagatt gcggcgcaga 720
tg 722

<210> 1780
<211> 692
<212> DNA
<213> Klebsiella planticola ATCC 33531

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gtttccggcg cccgcgtgct ggagcaaatt gc 692

<210> 1781
<211> 700
<212> DNA
<213> Klebsiella pneumoniae ATCC 27336

<400> 1781
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taaatatcac ccgcacggcg acagcgcctg ctatgaagcg atggtgctga tggcgcagcc 180
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<210> 1782
<211> 726
<212> DNA
<213> Klebsiella pneumoniae subsp. pneumoniae ATCC 13883

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<210> 1783
<211> 706
<212> DNA
<213> Klebsiella pneumoniae subsp. pneumoniae ATCC 29011

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<210> 1784
<211> 614
<212> DNA
<213> Klebsiella pneumoniae subsp. rhinoscleromatis ATCC 13884

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atttcccgac cgaggcggag atcatcacct cgcgggcgga aattcgcaaa atctaccaga 600
acgggcgcgg ctca 614

<210> 1785
<211> 668
<212> DNA
<213> Klebsiella terrigena ATCC 33257

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tgccgcat 668

<210> 1786
<211> 113
<212> DNA
<213> Bacillus cereus ATCC 7064

<400> 1786
cattacgttc taacactcaa ggacgcggaa cattctctat ggtgtttgac cactatgaag 60
aagtaccaaa gtctgtttct gaagaaatta tcaaaaaaaa taaaggtgaa taa 113

<210> 1787
<211> 118
<212> DNA
<213> Bacillus cereus ATCC 14579

<400> 1787
aacgtcatta cgttctaaca ctcaaggacg cggaacattc tctatggtgt ttgaccacta 60
tgaagaagta ccaaagtctg tttctgaaga aattatcaaa aaaaataaag gtgaataa 118

<210> 1788
<211> 120
<212> DNA
<213> Bacillus anthracis strain CIP 9444

<400> 1788
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tatgaagaag taccaaagtc tgtttctgaa gaaattatca aaaaaaataa aggtgaataa 120

<210> 1789
<211> 118
<212> DNA
<213> Bacillus cereus ATCC 13472

<400> 1789
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tgaagaagta ccaaagtctg tttctgaaga aattatcaaa aaaaataaag gtgaataa 118

<210> 1790
<211> 120

<212> DNA
<213> Bacillus anthracis ATCC 4229

<400> 1790
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tatgaagaag taccaaagtc tgtttctgaa gaaattatca aaaaaaataa aggtgaataa 120

<210> 1791
<211> 120
<212> DNA
<213> Bacillus pseudomycoides NRRL B-617

<400> 1791
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tatgaagaag taccgaagtc tgtttcagaa gaaattatca aaaaaaataa aggtgaataa 120

<210> 1792
<211> 116
<212> DNA
<213> Bacillus cereus ATCC 49064

<400> 1792
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aagaagtacc aaagtctgtt tctgaagaaa ttatcaaaaa aaataaaggt gaataa 116

<210> 1793
<211> 120
<212> DNA
<213> Bacillus anthracis strain CIP 9440

<400> 1793
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tatgaagaag taccaaagtc tgtttctgaa gaaattatca aaaaaaataa aggtgaataa 120

<210> 1794
<211> 100
<212> DNA
<213> Bacillus cereus ATCC 15816

<400> 1794
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tgtttctgaa gaaattatca aaaaaaataa aggtgaataa 100

<210> 1795
<211> 120
<212> DNA
<213> Bacillus weihenstephanensis strain WSBC 10204

<400> 1795
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<210> 1796
<211> 120
<212> DNA
<213> Bacillus mycoides ATCC 6462

<400> 1796
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tatgaagaag taccgaagtc tgtttcagaa gaaattatta aaaaaaataa aggcgaataa 120

<210> 1797
<211> 120
<212> DNA
<213> Bacillus thuringiensis ATCC 10792

<400> 1797
gcaacgtcat tacgttctaa cactcaagga cgcggaacat tctctatggt gtttgaccac 60
tatgaagaag taccaaagtc tgtttctgaa gaaattatca aaaaaaataa aggtgaataa 120

<210> 1798
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<212> DNA
<213> Bacillus weihenstephanensis strain WSBC 10204

<400> 1798
ttgattttta tcgattgttc aagtataact acttatgtaa gcttagaaag tgagacgcaa 60
gtttcacttt ctagtctaaa tataaaataa cccatataaa ctaaggagga atttaga 117

<210> 1799
<211> 117
<212> DNA
<213> Bacillus thuringiensis ATCC 10792

<400> 1799
ttgattttta tcgattgttc aagtataact acttatgtaa gcttagaaag tgggacgtaa 60
gtttcacttt ctagtctaaa tataaaataa cctatataaa ctaaggagga atttaga 117

<210> 1800
<211> 117
<212> DNA
<213> Bacillus anthracis ATCC 4229

<400> 1800
ttgattttta tcgattcttc acgtataact acttatgtaa gcttagaaag tgggacgcaa 60
gtttcgcttt ctagcctaaa tataaaataa cctatataaa ctaaggagga atttaga 117

<210> 1801
<211> 117
<212> DNA
<213> Bacillus pseudomycoides NRRL B-617

<400> 1801
ttgattttta tcgattgttc aagtataact acttatgtaa gcttagaaag tgggacttaa 60
gtttcacttt ctagtctaaa tataaaataa cctatataaa ctaaggagga atttaga 117

<210> 1802
<211> 117
<212> DNA
<213> Bacillus anthracis strain CIP 9444

<400> 1802
ttgattttta tcgattcttc acgtataact acttatgtaa gcttagaaag tgggacgcaa 60
gtttcgcttt ctagcctaaa tataaaataa cctatataaa ctaaggagga atttaga 117

<210> 1803
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<212> DNA
<213> Bacillus cereus ATCC 7064

<400> 1803
ttgattttta tcgattcttc acgtataact acttatgtaa gcttagaaag tgagacgcaa 60
gtttcgcttt ctagcctaaa tataaaataa cctatataaa ctaaggagga atttaga 117

<210> 1804
<211> 117
<212> DNA
<213> Bacillus cereus ATCC 49064

<400> 1804
ttgattttta tcgattcttc acgtataact acttatgtaa gcttagaaag tgggacgcaa 60
gtttcacttt ctagcctaaa tataaaataa cctatataaa ctaaggagga atttaga 117

<210> 1805
<211> 117
<212> DNA
<213> Bacillus mycoides ATCC 6462

<400> 1805
ttgattttta tcaattgttc gagtataact acttatgtaa gcttagaaag tgggacgtaa 60
gtttcgcttt ctagtctaaa tataaaataa cctatataaa ctaaggagga atttaga 117

<210> 1806
<211> 117
<212> DNA
<213> Bacillus cereus ATCC 14579

<400> 1806
ttgattttta tcgattgttc aagtataact acttatgtaa gcttagaaag tgggacgtaa 60
gtttcacttt ctagtctaaa tataaaataa cctatataaa ctaaggagga atttaga 117

<210> 1807
<211> 117
<212> DNA
<213> Bacillus cereus ATCC 15816

<400> 1807
ttgattttta tcgattcttc acgtataact acttatgtaa gcttagaaag tgggacgcaa 60
gtttcgcttt ctagcctaaa tataaaataa cctatataaa ctaaggagga atttaga 117

<210> 1808
<211> 117
<212> DNA
<213> Bacillus cereus ATCC 13472

<400> 1808
ttgattttta tcgattgttc aagtataact acttatgtaa gcttagaaag tgggacgtaa 60
gtttcacttt ctagtctaaa tataaaataa cctatataaa ctaaggagga atttaga 117

<210> 1809
<211> 116
<212> DNA
<213> Bacillus anthracis strain CIP 9440

<400> 1809
ttgattttta tcgattcttc acgtataact acttatgtaa gcttagaaag tgggacgcaa 60
gtttcgcttt ctagcctaaa tataaaataa cctatataaa ctaaggagga atttag 116

<210> 1810

<211> 278
<212> DNA
<213> Bacillus mycoides ATCC 6462

<400> 1810
atggctaaag ctaaattcga acgttctaaa ccccatgtta acatcggtac aatcggccac 60
gttgaccatg gtaaaactac attaactgct gcgatcacta cagttcttgc aaaagctggt 120
ggtgctgaag cacgcggata cgatcaaatc gacgctgctc cagaagaaag agagcgcgga 180
atcacaatct caactgcaca cgttgagtac gaaactgaaa ctcgtcacta tgcacacgtt 240
gactgcccag gtcacgctga ctatgttaaa aacatgat 278

<210> 1811
<211> 278
<212> DNA
<213> Bacillus thuringiensis ATCC 10792

<400> 1811
atggctaaag ctaaattcga acgttctaaa ccccatgtta acatcggtac aatcggccac 60
gttgaccatg gtaaaactac attaactgct gcgatcacta cagttcttgc aaaagctggt 120
ggtgctgaag cacgcggata cgatcaaatc gatgctgctc cagaagaaag agagcgcggt 180
atcacaatct caactgcaca cgttgagtac gaaactgaaa ctcgtcacta tgcacacgtt 240
gactgcccag gtcacgctga ctatgttaaa aacatgat 278

<210> 1812
<211> 270
<212> DNA
<213> Bacillus cereus ATCC 15816

<400> 1812
atggctaaag ctaaattcga acgttctaaa ccccatgtta acatcggtac aatcggccac 60
gttgaccatg gtaaaactac attaactgct gcgatcacta cagtacttgc aaaagctggt 120
ggtgctgaag cacgcggata cgatcaaatc gatgctgctc cagaagaaag agagcgcggt 180
atcacaatct caactgcaca cgttgagtac gaaactgaaa ctcgtcacta tgcacacgtt 240
gactgcccag gtcacgctga ctatgttaaa 270

<210> 1813
<211> 278
<212> DNA
<213> Bacillus weihenstephanensis strain WSBC 10204

<400> 1813
atggctaaag ctaaattcga acgttctaaa ccccatgtta acatcggtac aatcggccac 60
gttgaccatg gtaaaactac attaactgct gcgatcacta cagttcttgc aaaagctggt 120
ggtgctgaag cacgcggata cgatcaaatc gacgctgctc cagaagaaag agagcgcgga 180
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gactgcccag gtcatgctga ctatgttaaa aacatgat 278

<210> 1814
<211> 266
<212> DNA
<213> Bacillus anthracis strain CIP 9440

<400> 1814
atggctaaag ctaaattcga acgttctaaa ccccatgtta acatcggtac aatcggccac 60
gttgaccatg gtaaaactac attaactgct gcgatcacta cagtacttgc aaaagctggt 120
ggtgctgaag cacgcggata cgatcaaatc gatgctgctc cagaagaaag agagcgcggt 180
atcacaatct caactgcaca cgttgagtac gaaactgaaa ctcgtcacta tgcacacgtt 240
gactgcccag gtcacgctga ctatgt 266

<210> 1815
<211> 269

<212> DNA
<213> Bacillus cereus ATCC 7064

<400> 1815
atggctaaag ctaaattcga acgttctaaa ccccatgtta acatcggtac aatcggccac 60
gttgaccatg gtaaaactac attaactgct gcgatcacta cagtacttgc aaaagctggt 120
ggtgctgaag cacgcggata cgatcaaatc gatgctgctc cagaagaaag agagcgcggt 180
atcacaatct caactgcaca cgttgagtac gaaactgaaa ctcgtcacta tgcacacgtt 240
gactgcccag gtcacgctga ctatgttaa 269

<210> 1816
<211> 268
<212> DNA
<213> Bacillus cereus ATCC 13472

<400> 1816
atggctaaag ctaaattcga acgttctaaa ccccatgtta acatcggtac aatcggccac 60
gttgaccatg gtaaaactac attaactgct gcgatcacta cagttcttgc aaaagctggt 120
ggtgctgaag cacgcggata cgatcaaatc gatgctgctc cagaagaaag agagcgcggt 180
atcacaatct caactgcaca cgttgagtac gaaactgaaa ctcgtcacta tgcacacgtt 240
gactgcccag gtcacgctga ctatgtta 268

<210> 1817
<211> 278
<212> DNA
<213> Bacillus anthracis ATCC 4229

<400> 1817
atggctaaag ctaaattcga acgttctaaa ccccatgtta acatcggtac aatcggccac 60
gttgaccatg gtaaaactac attaactgct gcgatcacta cagtacttgc aaaagctggt 120
ggtgctgaag cacgcggata cgatcaaatc gatgctgctc cagaagaaag agagcgcggt 180
atcacaatct caactgcaca cgttgagtac gaaactgaaa ctcgtcacta tgcacacgtt 240
gactgcccag gtcacgctga ctatgttaaa aacatgat 278

<210> 1818
<211> 268
<212> DNA
<213> Bacillus cereus ATCC 14579

<400> 1818
atggctaaag ctaaattcga acgttctaaa ccccatgtta acatcggtac aatcggccac 60
gttgaccatg gtaaaactac attaactgct gcgatcacta cagttcttgc aaaagctggt 120
ggtgctgaag cacgcggata cgatcaaatc gatgctgctc cagaagaaag agagcgcggt 180
atcacaatct caactgcaca cgttgagtac gaaactgaaa ctcgtcacta tgcacacgtt 240
gactgcccag gtcacgctga ctatgtta 268

<210> 1819
<211> 278
<212> DNA
<213> Bacillus anthracis strain CIP 9444

<400> 1819
atggctaaag ctaaattcga acgttctaaa ccccatgtta acatcggtac aatcggccac 60
gttgaccatg gtaaaactac attaactgct gcgatcacta cagtacttgc aaaagctggt 120
ggtgctgaag cacgcggata cgatcaaatc gatgctgctc cagaagaaag agagcgcggt 180
atcacaatct caactgcaca cgttgagtac gaaactgaaa ctcgtcacta tgcacacgtt 240
gactgcccag gtcacgctga ctatgttaaa aacatgat 278

<210> 1820
<211> 278
<212> DNA

<213> Bacillus pseudomycoides NRRL B-617

<400> 1820
atggctaaag ctaaattcga acgttctaaa ccccatgtta acatcggtac aatcggccac 60
gttgaccatg gtaaaactac attaactgct gcgatcacta cagttcttgc aaaagctggt 120
ggtgctgaag cacgcggata cgaccaaatc gatgctgctc cagaagaaag agagcgcggt 180
atcacaatct caactgcaca cgttgagtac gaaactgaaa ctcgtcacta tgcacacgtt 240
gactgcccag gtcacgctga ctatgttaaa aacatgat 278

<210> 1821
<211> 263
<212> DNA
<213> Bacillus cereus ATCC 49064

<400> 1821
atggctaaag ctaaattcga acgttctaaa ccccatgtta acatcggtac aatcggccac 60
gttgaccatg gtaaaactac attaactgct gcgatcacta cagtacttgc aaaagctggt 120
ggtgctgaag cacgcggata cgatcaaatc gatgctgctc cagaagaaag agagcgcggt 180
atcacaatct caactgcaca cgttgagtac gaaactgaaa ctcgtcacta tgcacacgtt 240
gactgcccag gtcacgctga cta 263

<210> 1822
<211> 1668
<212> DNA
<213> Streptococcus oralis ATCC 35037

<400> 1822
caatcgaagt acaacgttct cttcgwgtat tggacggtgc ggttactgtt cttgactcac 60
aatcaggtgt tgagcctcaa actgaaacag tttggcgtca agcaactgag tacggagttc 120
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ctgttccaga agaaaacctt ggtgatgtta tgggtcacgt aactgctcgt cgtggacgtg 1620
tagatggtat ggaagcacwc ggtaacagcc aaatcgttcg tgcttacg 1668

<210> 1823
<211> 115
<212> DNA
<213> Budvicia aquatica ATCC 35567

<400> 1823
agacctgcgt tcacaaacac agggtcgtgc ttcttactct atggagttct tgaagtacaa 60

cgaagcgcca aacaacgttg ctacagcaat cattgaagct cgtaaggcta gataa 115

<210> 1824
<211> 107
<212> DNA
<213> Buttiauxella agrestis ATCC 33320

<400> 1824
ctgcgttcac tgaccaaggt cgtgcatctt actccatgga attcctgaag tatgatgacg 60
cgccaaacaa cgtagctcag gccgtaatcg aagctcgcgg taaataa 107

<210> 1825
<211> 79
<212> DNA
<213> Klebsiella oxytoca ATCC 13182

<400> 1825
ttactccatg gagttcctga agtatgatga tgcgccgaac aacgttgctc aggccgtaat 60
cgaagcccgt ggtaaataa 79

<210> 1826
<211> 111
<212> DNA
<213> Plesiomonas shigelloides ATCC 14029

<400> 1826
cagctgcgtt ctctgaccaa aggtcgtgca tcatacacta tggaattcct gaagtatgat 60
gatgcgccaa acaacgttgc tcaggccgtt attgaagccc gtggtaagta a 111

<210> 1827
<211> 108
<212> DNA
<213> Shewanella putrefaciens ATCC 8071

<400> 1827
gatttgcgct ctgcaactca tgggcgtgct tcgtactcca tggagttctt gaagtactct 60
gatgcaccgc aaaacattgc gaaagcgatt attgaatctc gtagctaa 108

<210> 1828
<211> 113
<212> DNA
<213> Obesumbacterium proteus ATCC 12841

<400> 1828
ctcagctgcg ttctctgacc aaaggtcgtg catcttactc catggaattc ctgaagtatg 60
atgatgcgcc taacaacgtt gctcaggccg ttattgaagc tcgtggcaaa taa 113

<210> 1829
<211> 70
<212> DNA
<213> Klebsiella oxytoca ATCC 13182

<400> 1829
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gaatatagcc 70

<210> 1830
<211> 66
<212> DNA

<213> Budvicia aquatica ATCC 35567

<400> 1830
gcctcgggta aaacttatat cccagtcccc ctcgtataga gggggataga gtaaaggaag 60
ataatc 66

<210> 1831
<211> 81
<212> DNA
<213> Plesiomonas shigelloides ATCC 14029

<400> 1831
tccacaggat taaaacccag gtttaaacct aagtcccgtg ctctctcctc aggggagagc 60
acaatagtaa ggaatatagc c 81

<210> 1832
<211> 70
<212> DNA
<213> Obesumbacterium proteus ATCC 12841

<400> 1832
gctactagtt taaaacattg atcccgtgct ctctctatga agggagagca caagagtaag 60
gaataaagcc 70

<210> 1833
<211> 72
<212> DNA
<213> Shewanella putrefaciens ATCC 8071

<400> 1833
tttccagtta cgacataaat gttattatgg tccagctttg actggactat tctgaaaaga 60
aaggaatata tc 72

<210> 1834
<211> 73
<212> DNA
<213> Buttiauxella agrestis ATCC 33320

<400> 1834
gccccgggtt ttaaaaaaca ttgatcccgt gctctctcca gaaggggaga gcgcaacagt 60
aaggaatata gcc 73

<210> 1835
<211> 795
<212> DNA
<213> Campylobacter coli ATCC 43479

<400> 1835
ctgcagctga tggtcctatg ccacaaacta gagagcacat ccttctatca cgccaagtag 60
gtgttccata tatcgttgta tttatgaata aagcagatat ggttgatgat gctgaacttt 120
tagaattggt tgaaatggaa attagagaat tattaagctc ttatgatttc ccaggtgatg 180
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cattctttaa taactataga ccgcaattct atgtaagaac aacagatgta acaggttcta 720
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gcttgattgc accag 795

<210> 1836
<211> 817
<212> DNA
<213> Campylobacter fetus subsp. fetus ATCC 25936

<400> 1836
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ctatctcgtc aagttggtgt tccatatata gttgttttta tgaacaaagc tgatatggta 120
gatgacgcag agttgctaga attagttgaa atggagatca gagagttatt aagcgaatat 180
gacttccctg gtgatgatac tcctattata agcggatcag cacttcaagc tcttgaagaa 240
gctaaagctg gtaatgatgg cgaatggtca gctaagatta tggatcttat ggctgctgtt 300
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ggcggtagac atactccatt cttcaacaac tatagaccac aattttatgt aagaacaaca 720
gatgttactg gatcaatcac tcttccagag ggtactgaga tggttatgcc tggtgataac 780
ttaaaaatca ctgttgagtt aatcaaccca gttgctc 817

<210> 1837
<211> 798
<212> DNA
<213> Campylobacter fetus subsp. venerealis ATCC 33561

<400> 1837
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tatctcgtca agttggtgtt ccatatatag ttgtttttat gaacaaagct gatatggtag 120
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gcggtagaca tactccattc ttcaacaact atagaccaca attttatgta agaacaacag 720
atgttactgg atcaatcact cttccagagg gtactgagat ggttatgcct ggtgataact 780
taaaaatcac tgttagtt 798

<210> 1838
<211> 1116
<212> DNA
<213> Buttiauxella agrestis ATCC 33320

<400> 1838
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gttgaccatg gtaaaactac tctgactgca gcaatcacta ccgttctggc taaaacctac 120
ggcggttctg cacgcgcatt cgaccagatc gataacgcac cagaagaaaa agctcgtggt 180
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<210> 1839
<211> 1109
<212> DNA
<213> Klebsiella oxytoca ATCC 13182

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<211> 1108
<212> DNA
<213> Plesiomonas shigelloides ATCC 14029

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<210> 1841
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<212> DNA
<213> Shewanella putrefaciens ATCC 8071

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<210> 1842
<211> 1116
<212> DNA
<213> Obesumbacterium proteus ATCC 12841

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<210> 1843
<211> 1129
<212> DNA
<213> Budvicia aquatica ATCC 35567

<400> 1843
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<210> 1844
<211> 810
<212> DNA
<213> Abiotrophia adiacens ATCC 49175

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aattacaaga acgtatcagt tcaactaaag 810

<210> 1845
<211> 815
<212> DNA
<213> Arcanobacterium haemolyticum ATCC 9345

<400> 1845
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<210> 1846
<211> 1073
<212> DNA
<213> Basidiobolus ranarum ATCC 24670

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<210> 1847
<211> 480
<212> DNA
<213> Blastomyces dermatitidis ATCC 56220

<400> 1847
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<210> 1848
<211> 566
<212> DNA
<213> Blastomyces dermatitidis ATCC 14112

<400> 1848
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<210> 1849
<211> 817
<212> DNA
<213> Campylobacter coli ATCC 43479

<400> 1849
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<210> 1850
<211> 775
<212> DNA
<213> Campylobacter fetus subsp. fetus ATCC 25936

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<210> 1851
<211> 793
<212> DNA
<213> Campylobacter fetus subsp. venerealis ATCC 33561

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<210> 1852
<211> 825
<212> DNA
<213> Campylobacter gracilis ATCC 33236

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gagaaaccgt atcgcgctaa ccggtcttac gatggccgag tatttccgcg acgagctagg 660
gcttgacgtt ttgatgttta ttgataatat cttccgcttc tcgcagtcgg gttcggagat 720
gtccgcgctt ttaggacgaa ttccgtccgc ggtcggttat cagcctacgc ttgccagcga 780

aatgggtaaa ttacaggagc gcattacttc tactaagaag ggctc 825

<210> 1853
<211> 818
<212> DNA
<213> Campylobacter jejuni subsp. jejuni ATCC 33560

<400> 1853
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tatgacagat ggtttggtaa ggggcttaaa agctgaggct ttaggtgctc ctattagtgt 180
tcctgttggt gagaaagttt taggaagaat tttcaatgtt actggagatt tgatcgatga 240
aggtgaagaa atttcttttg ataaaaaatg ggcaattcat agagatccgc cagcttttga 300
agatcaaagc acaaaaagtg agatttttga aacagggatt aaagttgtag atttgcttgc 360
tccttatgca aaaggtggta aagtaggtct ttttggtggt gcaggtgttg gtaaaactgt 420
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tgtgcttatg tttattgata atatctttag attttcacaa tcaggttctg aaatgtcagc 720
acttttagga agaattccat cagctgtggg ttatcaacca accctagcaa gtgaaatggg 780
taaattccaa gaaagaatta cttcaactaa aaaaggct 818

<210> 1854
<211> 830
<212> DNA
<213> Enterococcus cecorum ATCC 43198

<400> 1854
attacctgat atcaacaacg ccttattggt ctataaaaat gatgaacaaa aaagtaaaat 60
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aacggatggt ttacaacgtg ggatggaagt tgtcgatact ggtaaaccaa tttcagttcc 180
agttggtaaa gaaacgctag gacgtgtctt taacgtttta ggggatacga ttgatatgca 240
agaaccattt gcacaagatg cagatcgttc tgcaattcat aaagctgcac caaaatttga 300
agacttaagt acaagtactg aaattttaga aacagggatt aaagttatcg acttattagc 360
accatattta aaaggtggta aagtcggtct attcgggggt gccggagtag gtaaaaccgt 420
tttaatccaa gaattaatcc ataatattgc acaagaacat ggtgggattt ctgtatttac 480
cggtgttggt gaacgtacac gtgaaggaaa tgacttgtat catgaaatgc gtgattcagg 540
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gcgtgttgct ttaactgggt taacgattgc tgaatatttc cgtgatgtag aaggacaaga 660
tgtgttgcta tttattgata acatcttccg tttcactcaa gcgggttctg aagtatcagc 720
cttgcttggt cgtatgccat ctgccgtggg ttatcaacct acattggcta cagaaatggg 780
tcaattacaa gaacgtatca cttcaactaa gaagggctct atcacttcta 830

<210> 1855
<211> 823
<212> DNA
<213> Enterococcus columbae ATCC 51263

<400> 1855
tctttaccag atatcaataa tgcgcttatt gtctataaaa atgatgaaca aaaaagtaaa 60
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tcaactgatg gattgcaacg tggaatggaa gttttcgata caggtaagcc aatttcagta 180
ccagtaggtc gtgaaacatt aggtcgtgta tttaatgttt taggtgatac cattgatacg 240
caagaagctt ttcctgctga tgcgaatcgt gatgcgattc ataaatcagc tccagctttt 300
gaagaattaa gtacaagtac tgaaatccta gaaacaggga ttaaagttat cgacttacta 360
gcaccatact taaaaggtgg gaaagttggt ctattcggtg gtgccggtgt aggtaaaacc 420
gtattaattc aagaattaat tcataatatc gcccaagaac atgggggtat ttcagtattt 480
accggtgttg gtgaacgtac acgtgaagga aatgacttgt atcacgaaat gcgtgattca 540
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gacgtattgc tatttattga taatatcttc cgttttactc aagcaggttc tgaagtttct 720
gccttacttg gtcgtatgcc ttctgcggta ggttatcaac ctactttggc tactgaaatg 780

ggtcaattgc aagaacggat tacatcaacg aagaaaggtt cga 823

<210> 1856
<211> 826
<212> DNA
<213> Enterococcus dispar ATCC 51266

<400> 1856
ttaccagaca ttaataatgc cttggttgtc tataaaaatg acgaacaaaa aaccaagatt 60
gtattagaag ctgccttaga actaggagat ggtgtgattc gaactatcgc catggaatct 120
actgatggct tacaacgggg aatggaagtt gtcgatactg gcagttccat ttctgtaccg 180
gtaggaaaag aaacattggg tcgtgtattt aacgttttag gaaatacaat tgacttagaa 240
gaacctttc cagcggatgc taaacgtagt ggtatccata aaaaagcgcc tgattttgat 300
gaattaagca ctagtacaga aattttagaa acagggatta aagttattga cctattagcc 360
ccttatttaa aaggtggtaa agtcggatta ttcggtggtg ccggagttgg taaaaccgtt 420
ttaattcaag aattaattca taatattgcc caagaacatg gtgggatttc tgtttttact 480
ggtgttggtg aaagaacacg tgaaggtaat gacttgtatt atgaaatgaa agaatctggc 540
gttatcgaaa aaactgccat ggtatttggt caaatgaatg agccacctgg tgcccggatg 600
cgggttgctt taaccggact taccattgcg gaatacttcc gggacgttga aggacaagat 660
gtattgctct ttatcgataa tattttccgt tttacccaag ctggttcaga agtatctgcc 720
ttattaggac ggatgccctc tgccgttggt tatcaaccaa ctttggctac tgaaatggga 780
caacttcaag aacggattac ctcaacgaaa aaaggttcta ttacat 826

<210> 1857
<211> 814
<212> DNA
<213> Enterococcus malodoratus ATCC 43197

<400> 1857
tccttaccag acatcaacaa tgcgttgatt gtttacaaaa aaaataaaac aaaagttgtt 60
cttgaagctg ctttggaact tggtgatggt gttatccgca cgatctctat ggaatcaaca 120
gatggcttgc aacgtggaat ggaagttgtc gatacaggca aaccaatctc agttcccgtt 180
ggtaaagaaa ctttaggtcg tgtgtttaac gtattaggtg aaacaatcga caaagaagcg 240
ccttttccag aagatgcagt aaaaagcggt attcataaaa aagcgccggc ttttgaagaa 300
cttagtacca gtaatgaaat tttagaaaca gggatcaaag ttatcgactt attagctcct 360
tacttaaagg gtggtaaagt cggactattt ggtggtgccg gtgttggtaa aaccgtcttg 420
atccaagaat tgattcataa tatcgcccaa gaacacggtg gtatttcagt gtttacgggt 480
gttggtgaac gtactcgtga agggaacgac ctttattatg aaatgaagga atcaggcgtt 540
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gttgccttga ctggtttgac attggctgaa tatttccgag atgaagaagg acaagatgtg 660
ctgttgttta tcgacaacat cttccgtttc actcaagccg gttctgaagt ttctgccttg 720
cttggccgga tgccttcagc cgttggctac caaccaactt tggcaactga aatgggtcaa 780
ttgcaagaac gaatcacttc aacgaagaag ggct 814

<210> 1858
<211> 791
<212> DNA
<213> Enterococcus mundtii ATCC 43186

<400> 1858
cgcattagtt gtttataaaa atgatgagca aaaatcaaaa gttgttcttg aagcagcatt 60
agaattaggt gacggtgtga tccgtacgat cgcaatggaa tcgacggatg gactacaacg 120
tggaatggaa gtcatcgaca caagcaaagc gatctctgta ccagttggaa cagaaacatt 180
aggtcgtgtg ttcaacgtgt taggtgaaac aatcgatttg gaagcaccat ttccagagga 240
tgcccaaaga agcgagatcc acaagaaagc accaaatttt gatgaattaa gcacaagtac 300
agagattctt gaaactggga tcaaagtcat tgacttatta gcaccttatt taaaaggtgg 360
gaaagttgga ttgtttgggg gtgccggtgt tggtaaaacc gtactgatcc aagaattgat 420
ccataatatc gcccaagaac atgggggaat ctcagtgttt accggtgtag gggaacgtac 480
ccgtgaagga aacgatctgt attacgaaat gaaagattca ggcgtaatcg aaaaaacagc 540
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attgacgatt gcggaatatt tccgtgatgt cgaaggacaa gacgtgctct tatttattga 660
taatattttc cgtttcaccc aagcaggttc agaagtatct gccttactag gacgtatgcc 720
atcagcggtt ggttatcaac caaccttagc gactgaaatg ggacaactcc aagaacggat 780

cacttcaacg a 791

<210> 1859
<211> 817
<212> DNA
<213> Enterococcus raffinosus ATCC 49427

<400> 1859
tccttaccag acatcaacaa tgcgttgatt gtttataaaa aagataaaac aaaagttgtt 60
cttgaagctg ctttggaact tggtgatggt gttattcgca caatcgccat ggaatcaacg 120
gatggattac aacgtggaat ggaagttgtc gatactggca agcctatttc tgttccagta 180
ggaaaagaaa ctctaggtcg tgtatttaat gtattaggtg aaacaatcga caaggaagcg 240
ccttttccag aagatgcaga aaaaagtggt attcacaaga aagcaccaac tttcgaagaa 300
cttagcacaa gtaatgagat cttagaaaca ggaatcaaag ttattgactt gttagctcct 360
tacttaaaag gtggtaaagt tggattattt ggtggtgccg gtgttggtaa aacagtcttg 420
attcaagagc taattcataa tatcgctcaa gaacatggtg gtatttctgt gtttactggt 480
gttggtgaac gtactcgtga agggaacgac ctttattatg aaatgaaaga ttctggtgtt 540
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gttgccttaa ctggtttaac cttagccgaa tacttccgtg atgaagaagg acaagatgtg 660
ttgctattta ttgacaacat tttccgtttc actcaagccg gatcagaagt ttctgcctta 720
cttggccgta tgccgtcagc agttggttac caaccgactt tagcaactga aatgggtcaa 780
ttacaagaac gtattacgtc gacgaaaaaa ggttcaa 817

<210> 1860
<211> 852
<212> DNA
<213> Globicatella sanguis ATCC 51173

<400> 1860
cctgacattc ataatgcatt aattgtaacg aacgctgata tggcggatgt aatgcaagaa 60
aatatttcgg atgaagaaaa attattaacc ttagaagttg cactggattt aggtcatgga 120
atggtccgga caattgcgat ggaatcaacc gatggtttgg aacgcggcat gacagttgtg 180
gattatttaa caccgattaa agtgccagta ggcgaagcca ctttaggtag agtattcaat 240
gttttaggtg agacaattga tgaactagaa ccggttggcg acgatgttga actcaaaagt 300
attcatcgtg aagcccctaa atatgaggac ttagataata gttttcatgt tttagaaacc 360
ggaattaagg tcatcgattt attagctcct tatattaaag ggggaaaaat cggtttattc 420
ggtggtgccg gagtgggtaa aacggtctta attcaagaat taattcataa tattgcagaa 480
caattaggag gtatctcagt tttcactggg gttggagaac gtacccgtga agggaatgac 540
ctcgtttttg aaatgcgaga gtcaggtgta agcaagaaga cggccatggt tttcggtcaa 600
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tatttccgtg acgaattgaa acaagacgtc ttattattta ttgataatat ttatcgtttt 720
actcaagcag gttccgaagt gtcagcctta ttaggtcgta tgccttcagc agtagggtat 780
caaccaactt tagcaagtga aatgggacaa atgcaagaac gtattacgtc wacgaagcrc 840
ggttccatta ca 852

<210> 1861
<211> 828
<212> DNA
<213> Lactococcus garvieae ATCC 49156

<400> 1861
gcgcgactct tcctgagatt aataacgcac tcatcgttta caaagatgta gacggcgtta 60
aaactaaaat cgtccttgaa gtggcgttgg aacttggtga tggtgccgta cgtaccatcg 120
ctatggaatc aactgatggc ttgacacgtg gacttgaagt tctcgataca ggtaaagcaa 180
tcagcgtacc tgttggtcaa gaaacacttg gacgtgtctt caatgtactt ggagatgcta 240
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gtaaaaccgt ccttatccaa gagttgattc acaatattgc ccaagaacac ggtggtattt 480
ccgtatttac tggtgttggg gaacgtacac gtgaagggaa tgacctttac tgggaaatga 540
aagaatcagg cgttatcgaa aaaacagcca tggtcttcgg tcaaatgaat gaaccacctg 600
gagcacgtat gcgtgttgct cttactggtt tgacaattgc tgaatatttc cgtgatgtag 660
aaaaacaaga cgttttgctt ttcattgata atatcttccg tttcacccaa gccggttcag 720

aagtatctgc cctcttagga cgtatgccat cagccgttgg ttaccaacct acgcttgcaa 780
ctgaaatggg tcaacttcaa gaacgtatca cttcaacaaa acaaggtt 828

<210> 1862
<211> 828
<212> DNA
<213> Lactococcus lactis ATCC 11454

<400> 1862
aattgcctga rattaacaat gccttgattg tctacaaaga tgtcaatggc ctaaaaacaa 60
aaattactct tgaagttgct ttggaacttg gtgatggtgc agttcgtaca atcgctatgg 120
aatctactga tggcttgact cgtggacttg aagtccttga tacaggtaaa gcagtcagcg 180
ttcctgttgg ggaagccact cttggtcgtg tttttaacgt tcttggtgat gttattgacg 240
gtggggaaga atttgctgct gatgcagaac gtaatcctat ccataaaaaa gctccaacat 300
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ccgtccttat tcaagaattg attcacaaca tcgcccaaga acacggaggt atttctgtgt 480
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caggcgttat tgaaaaaact gccatggtct ttggtcaaat gaatgaacca ccaggagcac 600
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aagacgtact gcttttcatt gacaacatct tccgtttcac acaagctggt tcagaagttt 720
ctgccctttt gggacgtatg ccttctgccg ttggttacca accaacactt gctactgaaa 780
tggggcaatt gcaagaacgt atcacttcta ctaagaaggg ttctgtta 828

<210> 1863
<211> 825
<212> DNA
<213> Listeria ivanovii ATCC 19119

<400> 1863
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aactagccaa cttactttag aagtagccat tcaattaggt gatgacgttg ttcgtacaat 120
tgcaatggca tcaactgatg gtgttcaaag aggtatggaa gttattgata ctgggagccc 180
aatcacagtt ccagttggta cagtaacact tggtcgtgta tttaacgtat taggaaacac 240
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accaacattt gaccaattag caacaactac tgaaattctt gaaacaggaa taaaagttgt 360
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agaacaccaa gatgtacttc tattcattga taatattttc cgctttactc aagctggttc 720
agaggtttcg gctttactag gtcgtatgcc atctgcagta ggttatcaac caactctagc 780
taccgaaatg ggacaattac aagaacgtat tacttctact aatgt 825

<210> 1864
<211> 821
<212> DNA
<213> Succinivibrio dextrinosolvens ATCC 19716

<400> 1864
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acctagttct tgaggttcaa cagcagattg gcggtggtgt ggtacgctgc attgccatgg 120
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gcccatttgc taagggtggt aaagttggtc tgttcggtgg tgccggtgtg ggtaagacag 420
ttaacatgat ggagcttatc aataacattg ctaaggctca ctcaggtcta tctgtattta 480
ccggtgttgg tgagcgtact cgtgagggta acgacttcta ccacgaaatg caggaatcaa 540
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tgcttctgtt catcgataac atctatcgtt atacactggc tggtacagag gtatctgctc 720

tgttaggccg tatgccttca gctgtgggtt accagcctac actggctgag gaaatgggtg 780
tattacagga gcgtattgct tcaactaaga aaggttctat t 821

<210> 1865
<211> 822
<212> DNA
<213> Tetragenococcus halophilus ATCC 33315

<400> 1865
tgatacttta ccagatatca ataatgcatt agccgtatat aaaaatgatg agaacaagac 60
gcgtgttgta ttggaagcta ctttagaact tggagatggg gtaattcgtg ccatttctat 120
ggggtctact gacggcttgc aacgtggcat ggaagttgtg gatacacaag aacctatttc 180
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attagaacct tatctaagag gcggtaaagt cggattgttt ggaggcgccg gtgttggaaa 420
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tcaagacgta ttattattta ttgataatat tttccgtttt acacaagcag gtaccgaagt 720
ttccgcttta cttggtagaa tgccatctgc tgttggctat caacccacac tagcaactga 780
aatggggcaa ctgcaagaac ggattacgtc aacggataag gg 822

<210> 1866
<211> 818
<212> DNA
<213> Campylobacter fetus subsp. fetus ATCC 25936

<400> 1866
atctcctcag gatckatagg acttgatata gctcttggta taggcggcgt accaaaagga 60
agaatagtcg aaatttatgg gccagaaagc tctggtaaaa caactcttac tttgcattta 120
atagcagaat ctcaaaaagt cggcggagtt tgcgcgtttg tagatgcaga gcatgcactt 180
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ggagttgtcc ataaaatggg aactacagtt gtatttataa accaaattcg tatgaaaatc 480
ggcgctatgg gctatggcac tcctgaaact actactggcg gaaatgcgct taaattttac 540
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gaatttgata tcatgtttgg agaaggtatc agcaaagaag gagagataat agattacggc 720
gtaaaacttg atattatcga taaaagcggc gcttggttta gctatgataa ttcaaaatta 780
ggtcaaggca gagaaaactc aaaagcgttt ttaaaaga 818

<210> 1867
<211> 814
<212> DNA
<213> Campylobacter fetus subsp. venerealis ATCC 33561

<400> 1867
tctcctcagg atckatagga cttgatatag ctcttggtat aggcggcgta ccaaaaggaa 60
gaatagtcga aatttatggg ccagaaagct ctggtaaaac aactcttact ttgcatttaa 120
tagcagaatc tcaaaaagtc ggcggagttt gcgcgtttgt agatgcagag catgcacttg 180
atgttaaata tgctaaaaat ttaggcgttg atacggataa cttatatatt tctcaaccgg 240
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gagttgtcca taaaatggga actacagttg tatttataaa ccaaattcgt atgaaaatcg 480
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cttcagttag acttgacgta cgtaaaatag ctactttaaa acagagcgat gagccaatcg 600
gaaaccgcgt aaaagtaaaa gtagtaaaaa acaaagtcgc tcctcctttt agacaagccg 660
aatttgatat catgtttgga gaaggtatca gcaaagaagg agagataata gattacggcg 720

taaaacttga tattatcgat aaaagcggcg cttggtttag ctatgataat tcaaaattag 780
gtcaaggcag agaaaactca aaagcgtttt taaa 814

<210> 1868
<211> 824
<212> DNA
<213> Campylobacter jejuni subsp. jejuni ATCC 33560

<400> 1868
gatagcatag gcwcaggttc agttggactt gatcttgctt taggtatagg cggtgttcca 60
aaaggaagaa ttatagaaat ttatgggcct gaaagttcag gtaaaactac tctaactcta 120
cacattatcg cagaatgcca aaaagcaggt ggggtttgtg cttttatcga tgcagaacat 180
gcacttgatg tgaaatatgc taaaaattta ggtgtaaata cagatgattt gtatgtttct 240
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aaaatcggtg ctatgggtta tggtactcct gaaaccacaa caggtggaaa tgcattaaaa 540
ttttatgctt ctgtgcgttt agatgttaga aaagtagcaa ccttaaamca aaacgwagam 600
cctataggaa accgcgttaa agtaaaagta gttaaaaata aagttgctcc tccattcagm 660
caagctgaat ttgatgtgat gtttggagag ggtttaagcc gtgaaggtga attgatcgat 720
tatggtgtaa aacttgatat cgtagataaa agtggtgcgt ggtttttctta taaagataaa 780
aaacttggac aaggtagaga aaattcaaaa gctttcttaa aaga 824

<210> 1869
<211> 388
<212> DNA
<213> Enterococcus avium ATCC 14025

<400> 1869
agaaagttct ggtaaaacaa cggttgcact gcatgcgatt gcagaagttc aaaaacatgg 60
cgggacggca gcctttattg atgccgagca cgcgttggac cctcaatacg cacaacgtct 120
aggtgtaaac attgatgaat tgctgctatc acaaccagat actggggaac aaggcttaga 180
aattgcagat gctttagttt caagtggcgc agtcgatatt atcgttattg actcggtggc 240
cgcgctagtc ccccgtgctg aaatcgatgg cgagatgggt gatgcgcacg ttggtctgca 300
ggctcgtttg atgtcacaag cattgcgcaa gctgtcaggc tctatcaaca aaacaaagac 360
tatcgccgtc tttattaacc aaattcgt 388

<210> 1870
<211> 388
<212> DNA
<213> Enterococcus faecium ATCC 19434

<400> 1870
tgaaagttca ggtaaaacaa cagttgcact acacgctatt gcagaagtac aaaaaaatgg 60
cggaacggcc gctttcattg atgctgagca tgcgttagat ccgcaatatg cacaaaaatt 120
aggtgtgaat atcgatgaac tacttctttc acagcctgac acaggagaac aaggtctaga 180
gatcgctgat gctttagtat caagtggggc tgtagatatc gtagtagtcg attcagttgc 240
tgctttagtt ccacgagcag aaatcgacgg cgaaatgggt gactcacatg tcgggttaca 300
agcacgtttg atgtctcaag cattgcgtaa actctctggt tcgatcaaca aaacaaaaac 360
aatcgctatt ttcatcaacc aaatccgt 388

<210> 1871
<211> 388
<212> DNA
<213> Listeria monocytogenes ATCC 15313

<400> 1871
agagagttcc ggtaaaacaa ctgttgcgct tcatgcaatt gcggaagtac aagcacaagg 60
cggaacagca gcatttatcg atgctgagca tgcgttggat ccggcttatg ctaaaaacct 120
aggtgtaaat attgatgaat tattactatc tcaaccagat acaggagaac aagctttaga 180
gattgctgaa gctttagtta gaagtggtgc agttgatatg ttagtaattg actccgttgc 240

agcacttgta ccacgtgctg aaatcgaagg cgagatgggc gatgctcatg ttggattaca 300
agcacgttta atgtcccaag cattgcgtaa actttctggt gttattaata aatcaaaaac 360
cattgctatt ttcattaacc aaattcgt 388

<210> 1872
<211> 388
<212> DNA
<213> Streptococcus mitis ATCC 49456

<400> 1872
agagtcatct ggtaagacaa cggttgccct tcatgcagtt gcgcaagcac aaaaagaagg 60
tggtattgct gcctttatcg atgcggaaca tgcccttgat ccagcttatg ctgcggccct 120
tggtgtcaac attgacgaat tgctcttgtc acaaccagac tcaggagagc aaggtcttga 180
gattgcagga aaattgattg actcaggagc cgtggatctt gtcgtagtcg actcagttgc 240
ggcccttgtc cctcgtgcgg aaattgatgg agatatcggt gatagccacg ttggtttgca 300
ggctcgtatg atgagccagg ctatgcgtaa acttggtgct tctatcaata aaaccaaaac 360
aattgccatc tttatcaacc aattgcgt 388

<210> 1873
<211> 430
<212> DNA
<213> Streptococcus oralis ATCC 35037

<400> 1873
gaacatgacg ccgacttttt cacgcaattg gttgataaag atggcaattg ttttggtttt 60
attgatagaa gctccgagtt tacgcatggc ctggctcatc attcgagcct gcaaaccaac 120
gtgactgtct ccaatatccc catcaatttc cgcacgaggt acaagggccg caactgagtc 180
gataacgaca aggtcaactg cacctgagtc aatcaatttt ccagcaattt caagaccttg 240
ttcacctgag tctggttgtg acaagagcaa ttcgtcaata ttcacaccaa gggctgcagc 300
ataggctggg tcaagagcat gttccgcatc gataaaggct gcaataccac cttctttctg 360
tgcttgcgca acagcgtgaa gggcaaccgt tgtcttacca gatgattctg gcgcrtacay 420
ttcgatgata 430

<210> 1874
<211> 947
<212> DNA
<213> Aspergillus fumigatus ATCC 64746

<400> 1874
ttgtcgttgt tgctgcctcc gacggtcaga tgtaggtgga acatcttggg aaatacgtcg 60
taaaacacgt cgcttacgtt ttcgcgaata ggccccagac tcgtgagcat ttgctgctcg 120
cccgccaggt tggtgtccag aagatcgttg tcttcgtcaa caaaatcgat gctattgatg 180
atccggagat gctggaactg gtcgaactcg agatgcgtga gctgctgaac agctacggtt 240
tcgagggtga agagactccg atcattttcg gttccgctct ctgtgctctc gaaggacgcc 300
gtgacgacat cggtaaagac agaattgagc agcttatgaa cgctgtcgac acctggatcc 360
ccactcctca gcgtgacctc gacaaacctt tcttgatgtc tgtcgaggaa gtgttctcta 420
tcgccggccg tggtaccgtg gcttctggtc gtgtcgagcg tggtatcttg aagaaggact 480
ctgaggttga gattgttgga ggctccttcg aacccaagaa gaccaaagtc accgacattg 540
aaaccttcaa gaagagctgt gatgaatcgc gtgctggtga caactctggt ctcctcctgc 600
gtggtatccg acgtgaagac gtcaagcgtg gtatggtcat tgctgttccc ggcagcacca 660
aggctcacga caagttcctc gtctccatgt acgtcctgac cgaggcggag ggtggtcgtc 720
gtactggctt cggtgccaac taccgtcccc aagtcttcat ccgtactgca ggtaagttcc 780
cgcacaccgt gtccagatct tccgagagat tagcgatata tgctaatgat tcatcagacg 840
aggctgctga cctcagcttc cctgacggcg accaatctcg cagagttatg cctggtgaca 900
acgtcgagat gatcctgaag acccaccacc ctgttgctgc tgaggct 947

<210> 1875
<211> 923
<212> DNA
<213> Aspergillus versicolor strain WSA-175

<400> 1875

gctgcttccg atggtcaaat gtacgtcaac cttatataca ccctctgata tgacagaatg 60
tcgcctaaca gcacgcgtga actaggcccc aaacccgtga gcacttgctg cttgcccgcc 120
aggtcggtgt ccagaagatt gttgtgttcg tcaacaaggt tgatgccgtc gatgaccctg 180
agatgttgga acttgttgag ctggaaatgc gtgagcttct cagcacttac ggcttcgaag 240
gcgaggagac ccctatcatc ttcggttccg ccctatgcgc cctcgagggt cgccgccccg 300
atatcggtac tgagcgaatt gacagccttc ttgaggccgt tgacacctgg atccctaccc 360
ctcagcgtga cctggacaag cctttcctga tgtctgtcga ggaggtcttc tccattgccg 420
gtcgtggtac cgttgcctct ggccgtgttg agcgtggtct ccttaagaag gacagcgagg 480
tcgagattct cggaggtggt caggtcatga agaccaaggt cactgacatt gagacattca 540
agaagcactg tgacgaatcc cgtgctggtg acaactccgg tcttcttctc cgtggtatcc 600
gccgtgagga tgtcaagcgc ggtatggtta ttgctgctcc cgcctctatc aaggcccaca 660
agaagttcat ggtctccatg tacgtcctca ctgaggcaga aggtggccgt cgcagtggct 720
tcggtgtcaa ctatcgtccc caggcttaca ttcgcactgc tggtaagttt tcaaaacatt 780
cgacctctcg ccttagaaga agaatacctc taacttgtat ttagacgagg cttgcgacct 840
ttctttcccc gatggcgaca tgagccgccg tgtcatgcct ggtgacaacg tggaaatgat 900
cctcaacctc aacaaccctg tcg 923

<210> 1876
<211> 807
<212> DNA
<213> Basidiobolus ranarum ATCC 24670

<400> 1876
catcattgtt gtgtccgcca ctgatggtca aatgcctcaa actcgtgagc atttgttgtt 60
ggctcgccaa gttggtgtcc aacacttggt tgtcttcatc aacaaggttg atgccgttga 120
tgatcctgaa atgttggagt tggtcgagat ggaaatgcgt gatttgcttt cccaatacgg 180
tttccccgga gacaacgtcc ccattatcca gggttccgct ctctgcgctc ttgaggaccg 240
caaccccgag atcggccgta acgccatcat gaagttgatg gaggctgttg atagcagcat 300
ccccacccct gcccgtgatt tggacaaacc tttcctcatg cccgttgaag atgtgttctc 360
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tactgaagtt gaaatcgtcg gtatgggcga gcacttcaag accaccttga ccggtattga 480
aatgttccac aaggaattgg acaagggtat ggctggtgac aacatgggtt gcttgcttcg 540
tggtgtcaag cgtgagcaag tccgtcgtgg tatggttatc tgtgcccccg gatccgtcaa 600
gccacataag aagttcatgg ctcagctcta cattctcacc aaggatgagg gaggccgcca 660
cactcccttc gtcaacaact accgcccaca aatgttcttc agaactgttg atgttaccgc 720
catccttaag caccccccctg gtacccccga tgctgatgag aagatggtca tgcccggaga 780
caacgttcaa ctcgagtgcg agctctt 807

<210> 1877
<211> 806
<212> DNA
<213> Campylobacter gracilis ATCC 33236

<400> 1877
agttgtttct gctgcggatg gtcctatgcc tcaaactcgc gagcatatct tgctttctcg 60
tcaagtaggc gttccataca tcgtagtttt cctaaacaaa accgatatgg tcgatgatcc 120
ggatctttta gagttagttg aagaggaagt tagagatctt ttaaaagagt ataaattccc 180
tggcgacgaa accccaatca ttaagggttc tgctcttaag gctcttgagg aagctaaggc 240
cggacaagac ggcgaatggt ctgcaaagat tatggagctt atggacgcgg ttgatagcta 300
tattccaact cctgttcgcg atactgataa agatttcctt cttccgatcg aagatatttt 360
ctcgatttcc ggtcgcggta ccgttgtaac cggtagaatc gaaaaaggta tcgttaaagt 420
tggtgatact atcgagatcg taggtattaa acctactcag actactaccg tcactggcgt 480
tgagatgttt agaaaagaga tggatcaagg tgaagccggc gataatgtag gtgttttatt 540
gcgcggtact aagaaagagg aagtagagcg cggtatggtt ttatgcaaac caaaatcgat 600
cactcctcat actaaatttg agggcgaggt ttatatccta actaaagaag aaggcggacg 660
ccatactcca ttctttaata attatagacc gcagttttac gttcgtacga cagatgttac 720
cggttcgatt actcttcctg aaggaaccga gatggttatg ccgggcgaca acgttaaaat 780
caccgttgag ctaatcgctc cgatcg 806

<210> 1878
<211> 806
<212> DNA
<213> Campylobacter jejuni subsp. jejuni ATCC 33292

<400> 1878
gctgcagatg gccctatgcc acaaactaga gagcacattc ttctttctcg tcaagtaggc 60
gttccatata ttgttgtttt tatgaataaa gcagatatgg ttgatgatgc tgaactttta 120
gagttagttg aaatggaaat tagagaatta ttaagctctt atgatttccc aggcgatgat 180
acacctatta tttctggttc tgctttaaaa gctcttgaag aagctaaagc tggacaagat 240
ggtgaatggt cagcaaaaat tatggatctt atggctgcag ttgatagcta tattccaact 300
ccaactcgtg atactgaaaa agacttcttg atgccaattg aagatgtttt ctcaatttca 360
ggtcgtggta ctgttgttac aggtagaatt gaaaaaggtg ttgtaaaagt aggtgatact 420
atcgaaatcg ttggtattaa agatactcaa acaacaactg taacaggtgt tgaaatgttc 480
agaaaagaaa tggatcaagg cgaagcagga gataacgtag gtgttcttct tcgtggtact 540
aaaaaagaag aagttatccg tggtatggtt cttgctaaac caaaatcaat tactccacac 600
actgacttcg aagctgaagt ttatatctta aataaagatg aaggtggtag acatactcca 660
ttctttaaca actatagacc acagttttat gtaagaacaa ctgatgttac aggttcgatt 720
aaattagctg atggtgttga aatggttatg ccaggtgaaa atgtgagaat tactgtaagc 780
ttgatcgctc cagtagcact tgaaga 806

<210> 1879
<211> 896
<212> DNA
<213> Coccidioides immitis strain WSA-222

<400> 1879
atgtatgcaa ccgagagcac tcccggatct tggtttaaat ggcactaata taagacaggc 60
ctcaaactcg agagcattta cttctcgccc gtcagatcgg tatccaaaaa atcgtcgtct 120
tcgtgaacaa ggttgatgcc atcgaggaca aagagatgtt ggagcttgtt gaattggaga 180
tgcgtgaact cctaaccagc tacggtttcs agggtgaaga aactcccatc atttttggct 240
ctgctctctg tgccctcsaa ggaagacaac ccgagatcgg tgttaccaag attgatgagc 300
tcttgcaggc cgtcgacacc tggattccca ctcctcagcg tgagactgac aagcccttct 360
tgatgtccat tgaggaagtg ttctctattt ccggacgagg aaccgttgtc tccggccgtg 420
tggagcgtgg tatcctcaag aaggactccg aagttgaaat tgtcggcggt tcgcccgagc 480
caatcaaaac caaggttacc gatatcgaaa cctttaagaa gtcttgcgac gagtctcgcg 540
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tggtcgtcgc tgtaccagga agtgtcaagg cccatactga attcttagtt tcgctttacg 660
tcctcaccga agctgagggt gggcgcaaat ctggattcag cagcaagtac cgcccacaga 720
tgttcattcg cactgccggt atgtaatact gtgataattt cgttgacatg gtactgattg 780
aattctatag acgaagcggc tcagctcagc tggcccggag aagatcaaga caagatggct 840
atgccaggag acaatatcga aatgatttgc accaccttgc acccagttgc cgccga 896

<210> 1880
<211> 798
<212> DNA
<213> Erwinia amylovora ATCC 14976

<400> 1880
ctggtagttg ctgcgactga cggcccaatg cctcagacyc gtgagcacat cctgctgggt 60
cgccaggttg gcgtgccata catcatcgtg ttcctgaaca aatgtgacat ggttgatgat 120
gaagagctgc tggagctggt tgaaatggaa gtmcgtgacc tgctgtcaca gtacgacttc 180
ccaggcgacg acacgccaat cgtgcryggt tctgcgctga aagcgctgga rggcgaagca 240
gagtgggaag cgaagatcat cgaactggct ggccatctgg ataactacat cccggaacca 300
gagcgtgcga ttgacaaacc gttcctgctg ccaattgaag acgtgttctc catctctggc 360
cgtggtaccg ttgttaccgg tcgtgtagag cgcggtrtsg ttaaagtggg tgaagaagtt 420
gaaatcgttg gtatcaaaga taccgtgaaa tcaacctgta ccggcgttga gatgttccgt 480
aagctgctgg acgaaggccg tgcgggtgag aactgtggta tcctgctgcg cggtatcaag 540
cgcgaagata tccagcgtgg tcaggttctg gcgaagccag gcaccatcaa gccacacacc 600
aagttcgagt cagaagttta tattctgtct aaagacgaag gcggccgtca tactccgttc 660
ttcaaaggct accgtccaca gttctacttc cgtactactg acgtgaccgg gactatcgaa 720
ctgccagaag gcgttgagat ggtgatgcca ggcgacaaca ttcagatggt tgtgaccctg 780
atccacccga tcgccatg 798

<210> 1881
<211> 810
<212> DNA
<213> Salmonella choleraesuis subsp. choleraesuis ATCC 14028

<400> 1881
atcctggttg ttgctgcgac tgacggyccg atgccgcaga cccgtgagca catcctgctg 60
ggtcgtcagg taggcgttcc gtacatcatc gtgttcctga acaaatgcga catggttgat 120
gacgaagagc tgctggaact ggttgaaatg gaagttcgyg aactgctgtc tcagtacgac 180
ttcccgggcg acgacactcc gatcgttcgt ggttctgctc tgaaagcgct ggaaggcgac 240
gcagagtggg aagcgaaaat catcgaactg gctggcttcc tggattctta catyccggaa 300
ccagagcgtg cgattgacaa gccgttcctg ctgccgatcg aagacgtatt ctccatctcc 360
ggtcgtggta ccgttgttac cggtcgtgta garcgcggta tcatcaaagt gggcgaagaa 420
gttgaaatcg ttggtatcaa agagactcag aagtctacct gtactggcgt tgaaatgttc 480
cgcaaactgc tggacgaagg ccgtgccggt gagaacgtag gtgttctgct gcgtggtatc 540
aaacgtgaag aaatcgaacg tggtcaggta ctggctaagc cgggcaccat caagccgcac 600
accaagttcg aatctgaagt gtacattctg tccaaagatg aaggcggccg tcatactccg 660
ttcttcaaag gctaccgtcc gcagttctac ttccgtacta ctgacgtgac tggcaccatc 720
gaactgccgg aaggcgtaga gatggtaatg ccgggcgaca acatcaaaat ggttgttacc 780
ctgatccacc cgatcgcgat ggacgacggt 810

<210> 1882
<211> 888
<212> DNA
<213> Staphylococcus cohnii strain BM10711

<400> 1882
atgaattttt atttagagga gtttaacttg tctattcccg attcaggtcc atacggtata 60
acttcatcag aagacggaaa ggtatggttc acacaacata aggcaaacaa aatcagcagt 120
ctagatcaga gtggtaggat aaaagaattc gaagttccta cccctgatgc taaagtgatg 180
tgtttaattg tatcttcact tggagacata tggtttacag agaatggtgc aaataaaatc 240
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ccttacggaa taacggaagg tctaaatggc gatatatggt ttacccaatt gaatggagat 360
cgtataggaa agttgacagc tgatgggact atttatgaat atgatttgcc aaataaggga 420
tcttatcctg cttttattac tttaggttcg gataacgcac tttggttcac ggagaaccaa 480
aataattcta ttggaaggat tacaaataca gggaaattag aagaatatcc tctaccaaca 540
aatgcagcgg ctccagtggg tatcactagt ggtaacgatg gtgcactctg gtttgtcgaa 600
attatgggca acaaaatagg tcgaatcact acaactggtg agattagcga atatgatatt 660
ccaactccaa acgcacgtcc acacgctata accgcgggga aaaatagcga aatatggttt 720
actgaatggg gggcaaatca aatcggcaga attacaaacg acaaaacaat tcaagaatat 780
caacttcaaa cagaaaatgc ggaacctcat ggtattacct ttggaaaaga tggatccgta 840
tggtttgcat taaaatgtaa aattgggaag ctgaatttga acgaatga 888

<210> 1883
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1883
agccgcttga gcaaattaaa cta 23

<210> 1884
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1884
gtatcccgca gataaatcac cac 23

<210> 1885
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1885
agcgaaaaac accttgccga c 21

<210> 1886
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1886
gacgcccgcg ccaccact 18

<210> 1887
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1887
gacgcccgcg acaccacta 19
<210> 1888
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1888
gacgcccgca acaccacta 19

<210> 1889
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1889
gttcgcaact gcagctgctg 20

<210> 1890
<211> 19
<212> DNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1890
ttcgcaacgg cagctgctg 19

<210> 1891
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

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<222> (14)..(14)
<223> n represents a modified base

<220>
<221> modified_base
<222> (14)..(14)
<223> i

<400> 1891
ccggagctgc cgancggg 18

<210> 1892
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1892
cggagctgcc aarcgggg 18

<210> 1893
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1893
ggagctggcg arcggggt 18

<210> 1894
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:

Oligonucleotide

<400> 1894
gaccggagct agcgarcg 18

<210> 1895
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1895
cggagctagc aarcggggt 19

<210> 1896
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1896
gaaacggaac tgaatgaggc g 21

<210> 1897
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1897
cattaccatg ggcgataaca g 21

<210> 1898
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1898
ccattaccat gagcgataac ag 22

<210> 1899
<211> 861
<212> DNA
<213> Klebsiella pneumoniae strain 15571

<400> 1899
atgcgttata ttcgcctgtg tattatctcc ctgttagcca ccctgccgct ggcggtacac 60
gccagcccgc agccgcttga gcaaattaaa ctaagcgaaa gccagctgtc gggccgcgta 120

ggcatgatag aaatggatct ggccagcggc cgcacgctga ccgcctggcg cgccgatgaa 180
cgctttccca tgatgagcac ctttaaagta gtgctctgcg gcgcagtgct ggcgcgggtg 240
gatgccggtg acgaacagct ggagcgaaag atccactatc gccagcagga tctggtggac 300
tactcgccgg tcagcgaaaa acaccttgcc gacggcatga cggtcggcga actctgcgcc 360
gccgccatta ccatgagcga taacagcgcc gccaatctgc tactggccac cgtcggcggc 420
cccgcaggat tgactgcctt tttgcgccag atcggcgaca acgtcacccg ccttgaccgc 480
tgggaaacgg aactgaatga ggcgcttccc ggcgacgccc gcgacaccac taccccggcc 540
agcatggccg cgaccctgcg caagctgctg accagccagc gtctgagcgc ccgttcgcaa 600
cggcagctgc tgcagtggat ggtggacgat cgggtcgccg gaccgttgat ccgctccgtg 660
ctgccggcgg gctggtttat cgccgataag accggagctg gcgagcgggg tgcgcgcggg 720
attgtcgccc tgcttggccc gaataacaaa gcagagcgca ttgtggtgat ttatctgcgg 780
gataccccgg cgagcatggc cgagcgaaat cagcaaatcg ccgggatcgg cgcggcgctg 840
atcgagcact ggcaacgcta a 861

<210> 1900
<211> 780
<212> DNA
<213> Klebsiella pneumoniae strain SLK-47

<400> 1900
ctgttagcca ccctgccgct ggcggtacac gccagcccgc agccgcttga gcaaattaaa 60
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cgcacgctga ccgcctggcg cgccgatgaa cgctttccca tgatgagcac ctttaaagta 180
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gccaatctgc tactggccac cgtcggcggc cccgcaggat tgactgcctt tttgcgccag 420
atcggcgaca acgtcacccg ccttgaccgc tgggaaacgg aactgaatga ggcgcttccc 480
ggcgacgccc gcgccaccac taccccggcc agcatggccg cgaccctgcg caagctgctg 540
accagccagc gtctgagcgc ccgttcgcaa cggcagctgc tgcagtggat ggtggacgat 600
cgggtcgccg gaccgttgat ccgctccgtg ctgccggcgg gctggtttat cgccgataag 660
accggagctg gcgagcgggg tgcgcgcggg attgtcgccc tgcttggccc gaataacaaa 720
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<210> 1901
<211> 861
<212> DNA
<213> Escherichia coli

<400> 1901
atgcgttata ttcgcctgtg tattatctcc ctgttagcca ccctgccgct ggcggtacac 60
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ggcatgatag aaatggatct ggccagcggc cgcacgctga ccgcctggcg cgccgatgaa 180
cgctttccca tgatgagcac ctttaaagta gtgctctgcg gcgcagtgct ggcgcgggtg 240
gatgccggtg acgaacagct ggagcgaaag atccactatc gccagcagga tctggtggac 300
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cccgcaggat tgactgcctt tttgcgccag atcggcgaca acgtcacccg ccttgaccgc 480
tgggaaacgg aactgaatga ggcgcttccc ggcgacgccc gcaacaccac taccccggcc 540
agcatggccg cgaccctgcg caagctgctg accagccagc gtctgagcgc ccgttcgcaa 600
cggcagctgc tgcagtggat ggtggacgat cgggtcgccg gaccgttgat ccgctccgtg 660
ctgccggcgg gctggtttat cgccgataag accggagctg gcgagcgggg tgcgcgcggg 720
attgtcgccc tgcttggccc gaataacaaa gcagagcgca ttgtggtgat ttatctgcgg 780
gataccccgg cgagcatggc cgagcgaaat cagcaaatcg ccgggatcgg cgcggcgctg 840
atcgagcact ggcaacgcta a 861

<210> 1902
<211> 861
<212> DNA
<213> Klebsiella pneumoniae strain 803

<400> 1902
atgcgttata ttcgcctgtg tattatctcc ctgttagcca ccctgccgct ggcggtacac 60

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ggcatgatag aaatggatct ggccagcggc cgcacgctga ccgcctggcg cgccgatgaa 180
cgctttccca tgatgagcac ctttaaagta gtgctctgcg gcgcagtgct ggcgcgggtg 240
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gccgccatta ccatgagcga taacagcgcc gccaatctgc tgctggccac cgtcggcggc 420
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attgtcgccc tgcttggccc gaataacaaa gcagagcgca ttgtggtgat ttatctgcgg 780
gatacgccgg cgagcatggc cgagcgaaat cagcaaatcg ccgggatcgg cgcggcgctg 840
atcgagcact ggcaacgcta a 861

<210> 1903
<211> 896
<212> DNA
<213> Klebsiella pneumoniae ATCC 700603

<400> 1903
atgcgttatt ttcgcctgtg tattatctcc ctgttagcca ccctgccgct ggcggtacac 60
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ggcatgatag aaatggatct ggccagcggc cgcacgctga ccgcctggcg cgccgatgaa 180
cgctttccca tgatgagcac ctttaaagta gtgctctgcg gcgcagtgct ggcgcgggtg 240
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gccgccatta ccatgagcga taacagcgcc gccaatctgc tgctggccac cgtcggcggc 420
cccgcaggat tgactgcctt tttgcgccag atcggcgaca acgtcacccg ccttgaccgc 480
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agcatggccg cgaccctgcg caagctgctg accagccagc gtctgagcgc ccgttcgcaa 600
cggcagctgc tgcagtggat ggtggacgat cgggtcgccg gaccgttgat ccgctccgtg 660
ctgccggcgg gctggtttat cgccgataag accggagctg ccaaacgggg tgcgcgcggg 720
attgtcgccc tgcttggccc gaataacaaa gcagagcgga ttgtggtgat ttatctgcgg 780
gatacgccgg cgagcatggc cgagcgaaat cagcaaatcg ccgggatcgg cgcggcgctg 840
atcgagcact ggcaacgcta acccggcggt ggccgcgcgc gttatccggc tcgtag 896

<210> 1904
<211> 861
<212> DNA
<213> Escherichia coli strain JC2926

<400> 1904
atgcgttata ttcgcctgtg tattatctcc ctgttagcca ccctgccgct ggcggtacac 60
gccagcccgc agccgcttga gcaaattaaa ctaagcgaaa gccagctgtc gggccgcgta 120
ggcatgatag aaatggatct ggccagcggc cgcacgctga ccgcctggcg cgccgatgaa 180
cgctttccca tgatgagcac ctttaaagta gtgctctgcg gcgcagtgct ggcgcgggtg 240
gatgccggtg acgaacagct ggagcgaaag atccactatc gccagcagga tctggtggac 300
tactcgccgg tcagcgaaaa acaccttgcc gacggcatga cggtcggcga actctgcgcc 360
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cccgcaggat tgactgcctt tttgcgccag atcggcgaca acgtcacccg ccttgaccgc 480
tgggaaacgg aactgaatga ggcgcttccc ggcgacgccc gcgacaccac taccccggcc 540
agcatggccg cgaccctgcg caagctgctg accagccagc gtctgagcgc ccgttcgcaa 600
cggcagctgc tgcagtggat ggtggacgat cgggtcgccg gaccgttgat ccgctccgtg 660
ctgccggcgg gctggtttat cgccgataag accggagcta gcgagcgggg tgcgcgcggg 720
attgtcgccc tgcttggccc gaataacaaa gcagagcgca ttgtggtgat ttatctgcgg 780
gataccccgg cgagcatggc cgagcgaaat cagcaaatcg ccgggatcgg cgcggcgctg 840
atcgagcact ggcaacgcta a 861

<210> 1905
<211> 861
<212> DNA
<213> Pseudomonas aeruginosa

<400> 1905
atgcgttata ttcgcctgtg tattatctcc ctgttagcca ccctgccgct ggcggtacac 60
gccagcccgc agccgcttga gcaaattaaa ctaagcgaaa gccagctgtc gggccgcgta 120
ggcatgatag aaatggatct ggccagcggc cgcacgctga ccgcctggcg cgccgatgaa 180
cgctttccca tgatgagcac ctttaaagta gtgctctgcg gcgcagtgct ggcgcgggtg 240
gatgccggtg acgaacagct ggagcgaaag atccactatc gccagcagga tctggtggac 300
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cccgcaggat tgactgcctt tttgcgccag atcggcgaca acgtcacccg ccttgaccgc 480
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cggcagctgc tgcagtggat ggtggacgat cgggtcgccg gaccgttgat ccgctccgtg 660
ctgccggcgg gctggtttat cgccgataag accggagcta gcaaacgggg tgcgcgcggg 720
attgtcgccc tgcttggccc gaataacaaa gcagagcgca ttgtggtgat ttatctgcgg 780
gatacgccgg cgagcatggc cgagcgaaat cagcaaatcg ccgggatcgg cgcggcgctg 840
atcgagcact ggcaacgcta a 861

<210> 1906
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1906
ccttattccc ttttttgcgg 20

<210> 1907
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1907
cacctatctc agcgatctgt ct 22

<210> 1908
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1908
aacagcggta agatccttga gag 23

<210> 1909
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1909
atgacttggt taagtactca cc 22

<210> 1910
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1910
atgacttggt tgagtactca cc 22

<210> 1911
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1911
ccataaccat gggtgataac ac 22

<210> 1912
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1912
ccataaccat gagtgataac ac 22

<210> 1913
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1913
cgccttgatc attgggaacc 20

<210> 1914
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1914

cgccttgatc gttgggaacc 20

<210> 1915
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1915
cgccttgata gttgggaacc 20

<210> 1916
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1916
cgtgggtctt gcggtatcat 20

<210> 1917
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1917
cgtgggtctg gcggtatcat 20

<210> 1918
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1918
gtgggtctca cggtatcatt g 21

<210> 1919
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1919
cgtgggtctc tcggtatcat t 21

<210> 1920
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<220>
<221> misc_feature
<222> (6)..(6)
<223> n represents any nucleotide

<400> 1920
cgtggntctc gcggtatcat 20

<210> 1921
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1921
cgtgggtcta gcggtatcat t 21

<210> 1922
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1922
gttttccaat gattagcact ttta 24

<210> 1923
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1923
gttttccaat gataagcact ttta 24

<210> 1924
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:

Oligonucleotide

<400> 1924
gttttccaat gctgagcact ttt 23

<210> 1925
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1925
cgttttccaa tgatgagcac ttt 23

<210> 1926
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1926
gttttccaat ggtgagcact ttt 23

<210> 1927
<211> 861
<212> DNA
<213> Neisseria meningitidis strain MC9690-129

<400> 1927
atgagtattc aacattttcg tgtcgccctt attccctttt ttgcggcatt ttgccttcct 60
gtttttgctc acccagaaac gctggtgaaa gtaaaagatg ctgaagatca gttgggtgca 120
cgagtgggtt acatcgaact ggatctcaac agcggtaaga tccttgagag ttttcgcccc 180
gaagaacgtt ttccaatgat gagcactttt aaagttctgc tatgtggtgc ggtattatcc 240
cgtgttgacg ccgggcaaga gcaactcggt cgccgcatac actattctca gaatgacttg 300
gttgagtact caccagtcac agaaaagcat cttacggatg gcatgacagt aagagaatta 360
tgcagtgctg ccataaccat gagtgataac actgctgcca acttacttct gacaacgatc 420
ggaggaccga aggagctaac cgcttttttg cacaacatgg gggatcatgt aactcgcctt 480
gatcgttggg aaccggagct gaatgaagcc ataccaaacg acgagcgtga caccacgatg 540
cctgcagcaa tggcaacaac gttgcgcaaa ctattaactg gcgaactact tactctagct 600
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tcggcccttc cggctggctg gtttattgct gataaatctg gagccggtga gcgtgggtct 720
cgcggtatca ttgcagcact ggggccagat ggtaagccct cccgtatcgt agttatctac 780
acgacgggga gtcaggcaac tatggatgaa cgaaatagac agatcgctga gataggtgcc 840
tcactgatta agcattggta a 861

<210> 1928
<211> 861
<212> DNA
<213> Escherichia coli strain HB251

<400> 1928
atgagtattc aacatttccg tgtcgccctt attccctttt ttgcggcatt ttgccttcct 60
gtttttgctc acccagaaac gctggtgaaa gtaaaagatg ctgaagatca gttgggtgca 120
cgagtgggtt acatcgaact ggatctcaac agcggtaaga tccttgagag ttttcgcccc 180
gaagaacgtt ttccaatgat gagcactttt aaagttctgc tatgtggcgc ggtattatcc 240
cgtgttgacg ccgggcaaga gcaactcggt cgccgcatac actattctca gaatgacttg 300

gttaagtact caccagtcac agaaaagcat cttacggatg gcatgacagt aagagaatta 360
tgcagtgctg ccataaccat gagtgataac actgcggcca acttacttct gacaacgatc 420
ggaggaccga aggagctaac cgcttttttg cacaacatgg gggatcatgt aactcgcctt 480
gatcattggg aaccggagct gaatgaagcc ataccaaacg acgagcgtga caccacgatg 540
cctgcagcaa tggcaacaac gttgcgcaaa ctattaactg gcgaactact tactctagct 600
tcccggcaac aattaataga ctggatggag gcggataaag ttgcaggacc acttctgcgc 660
tcggcccttc cggctggctg gtttattgct gataaatctg gagccggtga gcgtgggtct 720
cgcggtatca ttgcagcact ggggccagat ggtaagccct cccgtatcgt agttatctac 780
acgacgggga gtcaggcaac tatggatgaa cgaaatagac agatcgctga gataggtgcc 840
tcactgatta agcattggta a 861

<210> 1929
<211> 808
<212> DNA
<213> Klebsiella oxytoca strain 26W

<400> 1929
atgagtattc aacatttccg tgtcgccctt attccctttt ttgcggcatt ttgccttcct 60
gtttttgctc acccagaaac gctggtgaaa gtaaaagatg ctgaagatca gttgggtgca 120
cgagtgggtt acatcgagct ggatctcaac agcggtaaga tccttgagag ttttcgcccc 180
gaagaacgtt ttccaatgat gagcactttt aaagttctgc tatgtggtgc ggtattatcc 240
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ggaggaccga aggagctaac cgcttttttg cacaacatgg gggatcatgt aacccgcctt 480
gatagttggg aaccggagct gaatgaagcc ataccaaacg acgagcgtga caccacgatg 540
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tcggcccttc cggctggctg gtttattgct gataaatctg gagccggtaa gcgtggatct 720
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acgacgggga gtcaggcaac tatggatg 808

<210> 1930
<211> 861
<212> DNA
<213> Escherichia coli

<400> 1930
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cgagtgggtt acatcgaact ggatctcaac agcggtaaga tccttgagag ttttcgcccc 180
gaagaacgtt ttccaatgat gagcactttt aaagttctgc tatgtggcgc ggtattatcc 240
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gttgagtact caccagtcac agaaaagcat cttacggatg gcatgacagt aagagaatta 360
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gatcgttggg aaccggagct gaatgaagcc ataccaaacg acgagcgtga caccacgatg 540
cctgcagcaa tggcaacaac gttgcgcaaa ctattaactg gcgaactact tactctagct 600
tcccggcaac aattaataga ctggatggag gcggataaag ttgcaggacc acttctgcgc 660
tcggcccttc cggctggctg gtttattgct gataaatctg gagccggtga gcgtgggtct 720
ggcggtatca ttgcagcact ggggccagat ggtaagccct cccgtatcgt agttatctac 780
acgacgggga gtcaggcaac tatggatgaa cgaaatagac agatcgctga gataggtgcc 840
tcactgatta agcattggta a 861

<210> 1931
<211> 861
<212> DNA
<213> Escherichia coli strain BM2728

<400> 1931
atgagtattc aacatttccg tgtcgccctt attccctttt ttgcggcatt ttgccttcct 60
gtttttgctc acccagaaac gctggtgaaa gtaaaagatg ctgaagatca gttgggtgca 120
cgagtgggtt acatcgaact ggatctcaac agcggtaaga tccttgagag ttttcgcccc 180

gaagaacgtt ttccaatgat gagcactttt aaagttctgc tatgtggcgc ggtattatcc 240
cgtgttgacg ccgggcaaga gcaactcggt cgccgcatac actattctca gaatgacttg 300
gttgagtact caccagtcac agaaaagcat cttacggatg gcatgacagt aagagaatta 360
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ggaggaccga aggagctaac cgcttttttg cacaacatgg gggatcatgt aactcgcctt 480
gatcgttggg aaccggagct gaatgaagcc ataccaaacg acgagcgtga caccacgatg 540
cctgcagcaa tggcaacaac gttgcgcaaa ctattaactg gcgaactact tactctagct 600
tcccggcaac aattaataga ctggatggag gcggataaag ttgcaggacc acttctgcgc 660
tcggcccttc cggctggctg gtttattgct gataaatctg gagccggtga gcgtgggtct 720
ctcggtatca ttgcagcact ggggccagat ggtaagccct cccgtatcgt agttatctac 780
acgacgggga gtcaggcaac tatggatgaa cgaaatagac agatcgctga gataggtgcc 840
tcactgatta agcattggta a 861

<210> 1932
<211> 861
<212> DNA
<213> Escherichia coli

<400> 1932
atgagtattc aacattttcg tgtcgccctt attccctttt ttgcggcatt ttgccttcct 60
gtttttgctc acccagaaac gctggtgaaa gtaaaagatg ctgaagatca gttgggtgca 120
cgagtgggtt acatcgaact ggatctcaac agcggtaaga tccttgagag ttttcgcccc 180
gaagaacgtt ttccaatgct gagcactttt aaagttctgc tatgtggtgc ggtattatcc 240
cgtgttgacg ccgggcaaga gcaactcggt cgccgcatac actattctca gaatgacttg 300
gttgagtact caccagtcac agaaaagcat cttacggatg gcatgacagt aagagaatta 360
tgcagtgctg ccataaccat gagtgataac actgctgcca acttacttct gacaacgatc 420
ggaggaccga aggagctaac cgcttttttg cacaacatgg gggatcatgt aactcgcctt 480
gatcgttggg aaccggagct gaatgaagcc ataccaaacg acgagcgtga caccacgatg 540
cctgcagcaa tggcaacaac gttgcgcaaa ctattaactg gcgaactact tactctagct 600
tcccggcaac aattaataga ctggatggag gcggataaag ttgcaggacc acttctgcgc 660
tcggcccttc cggctggctg gtttattgct gataaatctg gagccggtga gcgtgggtct 720
agcggtatca ttgcagcact ggggccagat ggtaagccct cccgtatcgt agttatctac 780
acgacgggga gtcaggcaac tatggatgaa cgaaatagac agatcgctga gataggtgcc 840
tcactgatta agcattggta a 861

<210> 1933
<211> 861
<212> DNA
<213> Escherichia coli

<400> 1933
atgagtattc aacatttccg tgtcgccctt attccctttt ttgcggcatt ttgccttcct 60
gtttttgctc acccagaaac gctggtgaaa gtaaaagatg ctgaagatca gttgggtgca 120
cgagtgggtt acatcgagct ggatctcaac agcggtaaga tccttgagag ttttcgcccc 180
gaagaacgtt ttccaatggt gagcactttt aaagttctgc tatgtggtgc ggtattatcc 240
cgtgttgacg ccgggcaaga gcaactcggt cgccgcatac actattctca gaatgacttg 300
gttgagtact caccagtcac agaaaagcat cttacggatg gcatgacagt aagagaatta 360
tgcagtgctg ccataaccat gagtgataac actgcggcca acttacttct gacaacgatc 420
ggaggaccga aggagctaac cgcttttttg cacaacatgg gggatcatgt aacccgcctt 480
gatcgtcggg aaccggagct gaatgaagcc ataccaaacg acgagcgtga caccacgatg 540
cctgcagcaa tggcaacaac gttgcgcaaa ctattaactg gcgaactact tactctagct 600
tcccggcaac aattaataga ctggatggag gcggataaag ttgcaggacc acttctgcgc 660
tcggcccttc cggctggctg gtttattgct gataaatctg gagccggtga gcgtggatct 720
cgcggtatca ttgcagcact ggggccagat ggtaagccct cccgtatcgt agttatctac 780
acgacgggga gtcaggcaac tatggatgaa cgagatagac agatcgctga gataggtgcc 840
tcactgatta agcattggta a 861

<210> 1934
<211> 25
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1934
gaacgccagc gcgaaattca aaaag 25

<210> 1935
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1935
agctcggcat acttcgacag g 21

<210> 1936
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1936
taccacccgc acggc 15

<210> 1937
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1937
cggagtcgcc gtcgatg 17

<210> 1938
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1938
ccgcgcacca ttgcttcgta cactgaggag tctccgcgcg g 41

<210> 1939
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:

Oligonucleotide

<400> 1939
cgacccggat ggtagtatcg ataatgatcc gccagcggcc gggtcg 46

<210> 1940
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1940
gtatcgttgg tgacgtaat 19

<210> 1941
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1941
gcaatggtcc gtttaagt 18

<210> 1942
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1942
gactggaaca aagcctataa aaaatca 27

<210> 1943
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1943
gctggtggac ggccag 16

<210> 1944
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1944
tttcgccgcc atgcgttac 19

<210> 1945
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1945
cggcgactac gcggtat 17

<210> 1946
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1946
cggcgacttc gcggtat 17

<210> 1947
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1947
cggtatacgg caccatcgt 19

<210> 1948
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1948
gcggtataca acaccatcg 19

<210> 1949
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1949

cggtatacgc caccatcgt 19

<210> 1950
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1950
ggcgacatcg cctgc 15

<210> 1951
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1951
ggcgacagag cctgcta 17

<210> 1952
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1952
cctgctatgg agcgatggt 19

<210> 1953
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1953
cgcctgctat aaagcgatgg t 21

<210> 1954
<211> 589
<212> DNA
<213> Klebsiella pneumoniae subsp. pneumoniae ATCC 13883

<400> 1954
acaccggtca acattgagga agagcttaag aactcttatc tggattatgc gatgtcggtc 60
attgttggcc gtgcgctgcc ggatgtccga gatggcctga agccggtaca ccgtcgcgta 120
ctttacgcca tgaacgtatt gggcaatgac tggaacaaag cctataaaaa atcagcccgt 180
gtcgttggtg acgtaatcgg taaataccac ccgcacggcg actccgcggt atacgacacc 240
atcgtgcgta tggcgcagcc gttctcgctg cgttacatgc tggtggacgg ccagggtaac 300

tttggttcca tcgacggcga ctccgccgcg gcgatgcgtt ataccgaaat tcgtctggcg 360
aaaatcgctc atgagctgat ggccgatctt gaaaaagaga cggtcgattt cgtcgacaac 420
tatgacggta cggagcgtat tccggacgtc atgccgacca aaattcctaa cctgctggtg 480
aacggcgcct ccgggatcgc cgtagggatg gccaccaaca taccgccaca taacctgacg 540
gaagtgatta acggctgtct ggcgtatgtt gacgatgaag acatcagca 589

<210> 1955
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1955
cgcgcaacca ttgcttcgta cactgaggag tctgcgcg 38

<210> 1956
<211> 989
<212> DNA
<213> Candida inconspicua ATCC 16783

<400> 1956
cggtaaaacc actttaactg ctgcaatcac caaagtttta tctgaagaag gtggtgcaga 60
tttcttagat tattcatcta ttgataaagc accagaagag agagctagag gtattaccat 120
ttctactgct catgttgaat atgaaactcc aaacagacat tattcacatg ttgattgtcc 180
aggtcatcaa gattatatta agaacatgat tactggtgca gctcaaatgg atggtgctat 240
tattgttgtt gcagctactg atggtcaaat gccacaaact aaggaacatt tattattagc 300
tagacaagtt ggtgttcaac atttagttgt ttttgttaac aagtgtgata ccgttgatga 360
tccagaaatg ttrgaattag ttgaaatgga aatgagagaa ttattgaccg aatatggatt 420
ygatggtgat aacacaccag ttattatggg ttctgcatta atggcattag aaggtaagag 480
accagaagtt ggtaaagaat ctattgttaa gttaatggaa gctgttgata cttggattcc 540
aactccacaa agagacttag aaaaaccatt cttattacca attgatgaag ttttctctat 600
ttctggtaga ggtactgttg tttctggtac tgttgataga ggtacattaa agaagggtga 660
agaagttgaa attgttggtg gtaaagaagg tgttattaag actactgtta ccggtattga 720
aatgtatcac aaggaattag atcaagcaca agctggtgat actccaggta ttttgttaag 780
aggtgttaag agagatcaaa ttgcaagagg tcaaattctt gcaaagccag gwtctgttaa 840
ggcatacaag aagttcttat catcattata cattttaaca aaggaagaag gtggtagaca 900
tactccattt tctgaaaatt acagacctca aatgtacatt agaacttcca atgttaatgt 960
tactttgaag ttcccagaaa ctgaagaag 989

<210> 1957
<211> 991
<212> DNA
<213> Candida utilis ATCC 22023

<400> 1957
ggtaagacca cccttactgc cgccatcacc aagtgccttg ctgagaaggg aggtgcctcg 60
ttcttggact acagtgccat cgacaaggcg ccagaggaga gagcaagagg tatcaccatc 120
tccactgcgc acgttgagta tgaaactgcc aacagacact actcgcacgt tgactgtcca 180
ggtcacgctg attacatcaa gaacatgatt accggtgctg cgcagatgga cggtgctatc 240
attgtcgttg cagccactga cggtcagatg ccacagacca gagaacactt gttgcttgcc 300
agacaagttg gtgtccagca cattgttgtc ttcgtcaaca aggttgacac catcgacgac 360
cctgagatgc ttgagcttgt tgaaatggag atgagagagt tgcttacttc gtatggattt 420
gacggtgata acaccccagt tatcatgggt tctgctttgt gtgctttgga aggccgtgag 480
ccagagattg gtgctaaggc cattgacaag ttgatggagg ccattgatga gtacatccca 540
actcctcaga gagacctgga aaagccattc ytgatgggtg ttgaagacgt gttctcgatc 600
tctggtagag gtaccgttgt cacrggccgt gttgagcgtg gtaacttgaa gaaaggtgat 660
gaaattgaac ttgttggcta caacaagaac ccaatcaaga ccaccgtcac cggtatcgaa 720
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gcacacacca agttcctcgc ttccttgtac atcctgacra aggaggaagg tggtcgtcac 900

agtgcctttg ctgagaacta cagaccacag atgttcatca gaaccggaga tgtcaccacc 960
atcttgacat ggccagagga gcacgctgac c 991

<210> 1958
<211> 985
<212> DNA
<213> Candida zeylanoides ATCC 7351

<400> 1958
cggtaagacc actttgaccg ccgccatcac caaggtgttg agcgccaaag gtggtgcttc 60
cttcttggac tacgggtcca tcgacagagc ccctgaggag agagccagag gtattactat 120
ctcgactgcc cacgttgagt acgagaccga taagagacac tacgcccacg ttgattgccc 180
tggtcacgct gattacatca agaacatgat cactggtgcc gcccaaatgg acggtgccat 240
tattgtcgtt gctgcttctg atggccaaat gccgcagacc agagagcact tgttgcttgc 300
cagacaggtt ggtgtgcaga acttggttgt gtttgttaac aaggtggaca ccatcgacga 360
ccccgaaatg ttggagttgg tggagatgga aatgagagaa ttgttgaccc actacggctt 420
tgacggtgac aacacccctg tcatcatggg ttcggcgttg tgtgccttgg aagacaggca 480
gcctgagatt ggcgagcaag ccatcatgaa gttgttggac gctgtcgacg agtacattcc 540
cactcctcag agagacttgg agcaaccatt tttgatgccc gttgaggatg ttttctccat 600
ctctggcaga ggtactgttg tcaccggtcg tgttgagaga ggctcattga agaagggtga 660
ggagattgag attgttggcg acttccccaa gcccttcaag actaccgtca ccggcattga 720
gatgttcaag aaggagttgg atgccgcgat ggcgggcgac aacgccggga tcttgttgag 780
aggtgtcaag agagacgagg tctcgagagg tatggttttg gccaagcccg gtactgtcac 840
ttcgcacacc aaggtgttgg cgtcgcttta catcttgacc aaagaggaag gtggccgcca 900
ctcgcccttt ggtgagaact acaagccaca gttattcatc agaacctccg atgtcactgg 960
tactttgagg ttccccgccg gtgag 985

<210> 1959
<211> 973
<212> DNA
<213> Candida catenulata ATCC 10565

<400> 1959
cggtaagacc accttgactg ccgccatcac caaggttctc tccgagaagg gtggtgccga 60
cttcttggac tacggtgcca ttgacagagc ccccgaggag cgtgcccgtg gtatcaccat 120
ctccactgcc cacgttgagt acgagactga caaccgtcac tacgcccaca ttgactgtcc 180
cggtcacgct gattacatca agaacatgat taccggtgcc gcccagatgg acggtgccat 240
tattgtcctt gctgctactg acggtgccat gccccagacc cgcgagcact tgcttctcgc 300
ccgtcaggtt ggtatccagg aattggttgt gtttgtgaac aaggttgaca ccatcgacga 360
ccccgagatg ttggagctcg ttgagatgga gatccgcgag ttgttgtctg agttcggttt 420
tgacggtgac aacacccccg tcatcatggg ttccgctttg tgcgctttgg agggcaagca 480
gcccgagatt ggtgagcagg ctatcaccaa gttgatggcc gccgttgacg agcacatccc 540
caccccccag cgtgacttgg agcagccttt cttgatgcct gttgagggtg ttttctctat 600
ctctggccgt ggtaccgtgg tgactggtaa ggttgcccgt ggtgtcctca agaagggtga 660
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gatgttcaag aaggagttgg accaggccat ggctggtgac aacgccggta tcttgttgcg 780
tggtgtcaag cgtgacgagg tgtctcgtgg tatggttttg gccaagcccg gcactgttgt 840
ctcgcacaag aaggttttgg cttcgcttta catcttgacc caggaggagg gtggccgtaa 900
gaccggcttc ggctccaact acaagcccca gttgttcttg cgcactaccg acgtcactgg 960
taccctcacc ttc 973

<210> 1960
<211> 985
<212> DNA
<213> Candida krusei ATCC 28870

<400> 1960
aagactacct tgactgctgc aatcaccaag gtcttagctg atcaaggtgg tgctgatttc 60
ttagattatg catctattga caaggctcct gaagaaagag caagaggtat tactatctct 120
actgctcacg ttgagtatga aaccccaaac agacattatt ctcatgtcga ttgtcctggc 180
catcaagatt atattaagaa tatgattact ggtgctgcac aaatggatgg tgctattatt 240
gttgttgctg ctactgatgg tcaaatgcca caaactaagg aacatttatt attagcaaga 300
caagttggtg ttcaacattt agttgtcttt gttaataaat gtgacaccat tgatgaccca 360

gaaatgttgg aattagttga atggaaatg agagaactat tgtctgaata tggttttgat 420
ggtgataaca ctccagttat tatgggttct gcattgatgg ctttagaaga caagagacct 480
gaagttggta aggaatctat tttaaagtta atggaagcyg ttgacacatg gattccaacc 540
ccagagagag atttagaaaa accatttttg ttacctattg atgaagtttt ctcaatctct 600
ggtagaggta ctgtcgtttc tggtactgtc gaaagaggta ctttgaagaa gggtgaagaa 660
gttgaaattg ttggtggtaa ggatggttct attaaaacta ctgtcacagg tattgaaatg 720
tatcacaagg aattagacca agcgcaagca ggtgatactc caggtatttt attaagaggt 780
gtcaagagag accaaatcaa gagaggtcaa attttagcaa agccagattc cgttaaggca 840
tacaagaagt tcttggcttc cctttatatc ttaaccaagg aagaaggtgg tagacataca 900
ccattctctg aaaactacag accacaaatg tacatcagaa ctaccaatgt taacgttact 960
ttgaagttcc cagacactga agaag 985

<210> 1961
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1961
gctcaaggca gatggcattc cc 22

<210> 1962
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1962
ggacaaggcg gttgcgtttg at 22

<210> 1963
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1963
cattcccgtc tcgctcgaca gt 22

<210> 1964
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1964
atctgcctgc ccgtcttgc 19

<210> 1965

<211> 816
<212> DNA
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Plasmid pGS05

<400> 1965
atgaataaat cgctcatcat tttcggcatc gtcaacataa cctcggacag tttctccgat 60
ggaggccggt atctggcgcc agacgcagcc attgcgcagg cgcgtaagct gatggccgag 120
ggggcagatg tgatcgacct cggtccggca tccagcaatc ccgacgccgc gcctgtttcg 180
tccgacacag aaatcgcgcg tatcgcgccg gtgctggacg cgctcaaggc agatggcatt 240
cccgtctcgc tcgacagtta tcaacccgcg acgcaagcct atgccttgtc gcgtggtgtg 300
gcctatctca atgatattcg cggttttcca gacgctgcgt tctatccgca attggcgaaa 360
tcatctgcca aactcgtcgt tatgcattcg gtgcaagacg ggcaggcaga tcggcgcgag 420
gcacccgctg gcgacatcat ggatcacatt gcggcgttct ttgacgcgcg catcgcggcg 480
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cgcttcgatt tgccggtgct tctgtctgtt tcgcgcaaat cctttctgcg cgcgctcaca 660
ggccgtggtc cgggggatgt cggggccgcg acactcgctg cagagcttgc cgccgccgca 720
ggtggagctg acttcatccg cacacacgag ccgcgcccct tgcgcgacgg gctggcggta 780
ttggcggcgc tgaaagaaac cgcaagaatt cgttaa 816

<210> 1966
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1966
catgccagtc ttgccaacg 19

<210> 1967
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1967
cagcaataag taatccagcg atg 23

<210> 1968
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1968
ggagagattt caccgcatag 20

<210> 1969
<211> 22
<212> DNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1969
agccaaccat catgctattc ca 22

<210> 1970
<211> 1206
<212> DNA
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Transposon Tn10

<400> 1970
atgaatagtt cgacaaagat cgcattggta attacgttac tcgatgccat ggggattggc 60
cttatcatgc cagtcttgcc aacgttatta cgtgaattta ttgcttcgga agatatcgct 120
aaccactttg gcgtattgct tgcactttat gcgttaatgc aggttatctt tgctccttgg 180
cttggaaaaa tgtctgaccg atttggtcgg cgcccagtgc tgttgttgtc attaataggc 240
gcatcgctgg attacttatt gctggctttt tcaagtgcgc tttggatgct gtatttaggc 300
cgtttgcttt cagggatcac aggagctact ggggctgtcg cggcatcggt cattgccgat 360
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gaaaccaaaa atacacgtga taatacagat accgaagtag gggttgagac gcaatcgaat 600
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caattgatag gccaaattcc cgcaacggtg tgggtgctat ttaccgaaaa tcgttttgga 720
tggaatagca tgatggttgg cttttcatta gcgggtcttg gtcttttaca ctcagtattc 780
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ctaccaattt gggatggctg gatttggatt attggtttag cgttttactg tattattatc 1140
ctgctatcga tgaccttcat gttaacccct caagctcagg ggagtaaaca ggagacaagt 1200
gcttag 1206

<210> 1971
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1971
cygactgygc catcctyatc a 21

<210> 1972
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<220>
<221> misc_feature

<222> (3)..(3)
<223> n represents a modified base

<220>
<221> misc_feature
<222> (13)..(13)
<223> n represents a modified base

<220>
<221> modified_base
<222> (3)..(3)
<223> i

<220>
<221> modified_base
<222> (13)..(13)
<223> i

<400> 1972
mgncagctca tynttgcwks c 21

<210> 1973
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<220>
<221> misc_feature
<222> (9)..(9)
<223> n represents a modified base

<220>
<221> misc_feature
<222> (16)..(16)
<223> n represents a modified base

<220>
<221> modified_base
<222> (9)..(9)
<223> i

<220>
<221> modified_base
<222> (16)..(16)
<223> i

<400> 1973
racaccrgny ttggwntcct t 21

<210> 1974
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<220>
<221> misc_feature

<222> (8)..(8)
<223> n represents a modified base

<220>
<221> modified_base
<222> (8)..(8)
<223> i

<400> 1974
acaagggntg grmsaaggag ac 22

<210> 1975
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1975
tgrccrgggt ggttraggac g 21

<210> 1976
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<220>
<221> misc_feature
<222> (16)..(16)
<223> n represents a modified base

<220>
<221> modified_base
<222> (16)..(16)
<223> i

<400> 1976
gatggaytcy gtyaantggg a 21

<210> 1977
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1977
gatggaytcy gtyaartggg a 21

<210> 1978
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<220>
<221> misc_feature
<222> (5)..(5)
<223> n represents a modified base

<220>
<221> modified_base
<222> (5)..(5)
<223> i

<400> 1978
catcntgyaa tggyaatcty aat 23

<210> 1979
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1979
catcytgyaa tggyaascty aat 23

<210> 1980
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<220>
<221> misc_feature
<222> (9)..(9)
<223> n represents a modified base

<220>
<221> misc_feature
<222> (12)..(12)
<223> n represents a modified base

<220>
<221> misc_feature
<222> (14)..(14)
<223> n represents a modified base

<220>
<221> modified_base
<222> (9)..(9)
<223> i

<220>
<221> modified_base
<222> (12)..(12)
<223> i

<220>

<221> modified_base
<222> (14)..(14)
<223> i

<400> 1980
tcratggcnt cnanragrgt yt 22

<210> 1981
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<220>
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<222> (9)..(9)
<223> n represents a modified base

<220>
<221> misc_feature
<222> (15)..(15)
<223> n represents a modified base

<220>
<221> modified_base
<222> (9)..(9)
<223> i

<220>
<221> modified_base
<222> (15)..(15)
<223> i

<400> 1981
tggacaccns caagnggkcy g 21

<210> 1982
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<220>
<221> misc_feature
<222> (9)..(9)
<223> n represents a modified base

<220>
<221> misc_feature
<222> (15)..(15)
<223> n represents a modified base

<220>
<221> modified_base
<222> (9)..(9)
<223> i

<220>
<221> modified_base
<222> (15)..(15)
<223> i

<400> 1982
tggacacyns caagnggkcy g 21

<210> 1983
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<220>
<221> misc_feature
<222> (14)..(14)
<223> n represents a modified base

<220>
<221> modified_base
<222> (14)..(14)
<223> i

<400> 1983
cygaytgcgc yatnctcatc a 21

<210> 1984
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1984
cygaytgygc yatyctsatc a 21

<210> 1985
<211> 1383
<212> DNA
<213> Cryptococcus neoformans strain M1-106

<400> 1985
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aagttcgaga aggaggctca agagctcgga aagtcttctt tcaagtacgc ttgggttctt 180
gacaagctta aggccgagcg agagcgaggt atcaccatcg acattgctct ttggaagttc 240
gagaccccta agtaccaggt taccgtcatt gacgcccccg gtcaccgaga cttcatcaag 300
aacatgatca ccggtacctc ccaggctgac tgtgccatcc tcatcattgc caccggtatc 360
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ttcaccctcg gtgtcaggca gctcattgtt gcttgcaaca agatggacac ctgcaagtgg 480
tctgaggacc gattcaacga aatcgtcaag gagaccaacg gtttcatcaa gaaggttggt 540
tacaacccca aggctgtccc cttcgtcccc atctctggtt ggcacggtga caacatgttg 600
gaggagacca ccaacatgcc ctggtacaag ggatggacca aggagaccaa gtccggtgtt 660
tccaagggta agacccttct cgaggccatc gacgccagta ggccccctac ccgacccacc 720
gacaagcccc tccgtctccc tctccaggac gtctacaaga tcggtggtat cggcacagtc 780
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ctccccggag acaacgttgg tttcaacgtc aagaacgttt ccatcaagga catccgacga 960
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cgattcgccg tccgagacat gcgacagacc gttgccgttg gtgttattaa gagtgtggag 1320
aagtccgatg ggaagagcgg caaggttacc aaggccgccg agaaggctgc taagaagaag 1380
taa 1383

<210> 1986
<211> 1380
<212> DNA
<213> Cryptococcus neoformans strain B3501

<400> 1986
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tcgaccacca ccggtcactt gatctacaag tgcggtggta tcgacaagcg aaccattgag 120
aagttcgaga aggaggctca agagctcgga aagtcttctt tcaagtacgc ttgggttctt 180
gacaagctta aggccgagcg agagcgaggt atcaccatcg acattgctct ttggaagttc 240
gagaccccca ggtaccaggt caccgtcatt gacgcccccg gtcaccgaga cttcatcaag 300
aacatgatca ccggtacctc ccaggctgac tgtgccatcc tcatcattgc caccggtatc 360
ggtgagttcg aggccggtat ctccaaggac ggtcagaccc gagagcacgc cctcctcgcc 420
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aagaccgaga agggtggcaa ggtcaccaag gctgctgaga aggctgccaa gaagaagtaa 1380

<210> 1987
<211> 1377
<212> DNA
<213> Saccharomyces cerevisiae

<400> 1987
atgggtaaag agaagtctca cattaacgtt gtcgttatcg gtcatgtcga ttctggtaag 60
tctaccacta ccggtcattt gatttacaag tgtggtggta ttgacaagag aaccatcgaa 120
aagttcgaaa aggaagccgc tgaattaggt aagggttctt tcaagtacgc ttgggttttg 180
gacaagttaa aggctgaaag agaaagaggt atcactatcg atattgcttt gtggaagttc 240
gaaactccaa agtaccaagt taccgttatt gatgctccag gtcacagaga tttcatcaag 300
aacatgatta ctggtacttc tcaagctgac tgtgctatct tgattattgc tggtggtgtc 360
ggtgaattcg aagccggtat ctctaaggat ggtcaaacca gagaacacgc tttgttggct 420
ttcaccttgg gtgttagaca attgattgtt gctgtcaaca agatggactc cgtcaaatgg 480
gacgaatcca gattccaaga aattgtcaag gaaacctcca actttatcaa gaaggttggt 540
tacaacccaa agactgttcc attcgtccca atctctggtt ggaacggtga caacatgatt 600
gaagctacca ccaacgctcc atggtacaag ggttgggaaa aggaaaccaa ggccggtgtc 660
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ccagtcggta gagttgaaac cggtgtcatc aagccaggta tggttgttac tttcgcccca 840
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aagttcgttc catctaagcc aatgtgtgtt gaagctttca gtgaataccc accattaggt 1260
agattcgctg tcagagacat gagacaaact gtcgctgtcg gtgttatcaa gtctgttgac 1320
aagactgaaa aggccgctaa ggttaccaag gctgctcaaa aggctgctaa gaaataa 1377

<210> 1988
<211> 1377
<212> DNA
<213> Saccharomyces cerevisiae

<400> 1988
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tctaccacta ccggtcattt gatttacaag tgtggtggta ttgacaagag aaccatcgaa 120
aagttcgaaa aggaagccgc tgaattaggt aagggttctt tcaagtacgc ttgggttttg 180
gacaagttaa aggctgaaag agaaagaggt atcactatcg atattgcttt gtggaagttc 240
gaaactccaa agtaccaagt taccgttatt gatgctccag gtcacagaga tttcatcaag 300
aacatgatta ctggtacttc tcaagctgac tgtgctatct tgattattgc tggtggtgtc 360
ggtgaattcg aagccggtat ctctaaggat ggtcaaacca gagaacacgc tttgttggct 420
ttcaccttgg gtgttagaca attgattgtt gctgtcaaca agatggactc cgtcaaatgg 480
gacgaatcca gattccaaga aattgtcaag gaaacctcca actttatcaa gaaggttggt 540
tacaacccaa agactgttcc attcgtccca atctctggtt ggaacggtga caacatgatt 600
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gtcaagggta agactttgtt ggaagccatt gacgccattg aacaaccatc tagaccaact 720
gacaagccat tgagattgcc attgcaagat gtttacaaga ttggtggtat tggtactgtg 780
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gctggtgtta ccactgaagt caagtccgtt gaaatgcatc acgaacaatt ggaacaaggt 900
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aagactgaaa aggccgctaa ggttaccaag gctgctcaaa aggctgctaa gaaataa 1377

<210> 1989
<211> 1377
<212> DNA
<213> Eremothecium gossypii ATCC 10895

<400> 1989
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aagttcgaga aggaggctgc cgagttgggt aagggttctt tcaagtacgc ctgggttttg 180
gacaaattga aggctgagag agagagaggt atcaccatcg acattgcgtt gtggaagttc 240
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aacatgatta ccggtacttc tcaagctgac tgtgccatct tgatcattgc tggtggtgtc 360
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agattcgctg tcagagacat gagacagacc gttgctgtcg gtgtcatcaa gtctgttgtc 1320

aagtccgaca aggctggtaa ggtcaccaag gccgcccaaa aggctggtaa gaaatag 1377

<210> 1990
<211> 1377
<212> DNA
<213> Eremothecium gossypii

<400> 1990
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aagttcgaga aggaggctgc cgagttgggt aagggttctt tcaagtacgc ctgggttttg 180
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agattcgctg tcagagacat gagacagacc gttgctgtcg gtgtcatcaa gtctgttgtc 1320
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<210> 1991
<211> 1646
<212> DNA
<213> Aspergillus oryzae strain KBN616

<400> 1991
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gattccggca agtccaccac cactggtcac ttgatctaca agtgtggtgg tatcgaccag 180
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ccccttttg cctgcaagtt ctctatagct aacatgatgt ctagatgcgt caaactgttg 1560

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ccgcccagaa ggctggcaag aaataa 1646

<210> 1992
<211> 1380
<212> DNA
<213> Aureobasidium pullulans strain R106

<400> 1992
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tccgacaagc agggtgccgg taaggttacc aaggccgctg tcaaggctgg caagaagtaa 1380

<210> 1993
<211> 1383
<212> DNA
<213> Histoplasma capsulatum strain 186AS

<400> 1993
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gagaagttcg aaaaggaagc cgaagagttg ggcaagaaat ccttcaaata tgcgtgggtc 180
cttgacaaac tgaagtctga gcgtgagcgt ggtatcacca tcgatattgc cctctggaaa 240
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taa 1383

<210> 1994
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<212> DNA
<213> Neurospora crassa

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taa 1383

<210> 1995
<211> 1383
<212> DNA
<213> Podospora anserina

<400> 1995
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gagaagttcg agaaggaagc tgctgagctc ggcaagggct ctttcaagta tgcctgggtt 180
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ttcgagaccc ccaagtacta tgtcaccgtc attgatgccc ccggccatcg tgatttcatc 300
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gagaaggccg ctgctggttc cggcaaggtt accaagtccg ctgccaaggc tggcaagaaa 1380
taa 1383

<210> 1996
<211> 1386

<212> DNA
<213> Podospora curvicolla strain VLV

<400> 1996
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gagaagttcg agaaggaagc tgctgagctc ggcaagggct ctttcaagta tgcctgggtt 180
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aagaacatga ttactggtac ttcccaggcc gattgcgcca ttctcatcat tgccgccggt 360
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gagaaggccg ctgctggttc cggcaaggtc accaagtccg ctgccaaggc tggtggcaag 1380
aaataa 1386

<210> 1997
<211> 1383
<212> DNA
<213> Sordaria macrospora strain OOO

<400> 1997
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gagaagttcg agaaggaagc cgctgagctc ggcaagggtt ccttcaagta tgcctgggtt 180
cttgacaagc tcaaggccga gcgtgagcgt ggtatcacca tcgatatcgc cctctggaag 240
ttcgagactc ccaagtacta cgtcaccgtc atcgatgccc ccggccatcg tgatttcatc 300
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gacaagaccc aggctgtcgc tggcaaggtc accaagtctg ctgccaaggc tgccaagaag 1380
taa 1383

<210> 1998
<211> 1383
<212> DNA
<213> Trichoderma reesei strain QM9414

<400> 1998
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gagaagtcct ctgccgccgc cgccaaggtc accaagtccg ctgccaaggc cgccaagaaa 1380
taa 1383

<210> 1999
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1999
catgtcaaya ttggtactat tggtcatgt 29

<210> 2000
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<220>
<221> misc_feature
<222> (9)..(9)
<223> n represents a modified base

<220>
<221> modified_base
<222> (9)..(9)
<223> i

<400> 2000
ccaccytcnc tcamgttgaa rcgtt 25

<210> 2001
<211> 23
<212> DNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<220>
<221> misc_feature
<222> (6)..(6)
<223> n represents a modified base

<220>
<221> misc_feature
<222> (12)..(12)
<223> n represents a modified base

<220>
<221> modified_base
<222> (6)..(6)
<223> i

<220>
<221> modified_base
<222> (12)..(12)
<223> i

<400> 2001
acyacnttra cngcygcyat yac 23

<210> 2002
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<220>
<221> misc_feature
<222> (3)..(3)
<223> n represents a modified base

<220>
<221> misc_feature
<222> (15)..(15)
<223> n represents a modified base

<220>
<221> modified_base
<222> (3)..(3)
<223> i

<220>
<221> modified_base
<222> (15)..(15)
<223> i

<400> 2002
ccngargara gagcnmgwgg t 21

<210> 2003
<211> 21
<212> DNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<220>
<221> misc_feature
<222> (9)..(9)
<223> n represents a modified base

<220>
<221> modified_base
<222> (9)..(9)
<223> i

<400> 2003
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<210> 2004
<211> 1360
<212> DNA
<213> Candida albicans strain SC5314

<400> 2004
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ttcttggatt atggttctat tgatagagct ccagaagaaa gagctagagg tatcactatt 180
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gccatgtgga cttgtagaga tatccttctc aaacttcttg 1360

<210> 2005
<211> 1342
<212> DNA
<213> Schizosaccharomyces pombe

<400> 2005
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attgacaagg cccccgagga aaaggcacgt ggtattacca tttcatctgc ccatgttgaa 180
tacgaaactg ctaatcgtca ctatgcccat gtggattgtc ctggtcacgc cgattacatt 240
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tttgcatgct gaataccaat attatgtccc ttctcagaat tctataacta cagtgtcatt 1260
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attgttagcc aaagttataa aa 1342

<210> 2006
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2006
tggagccggt gagcgtgg 18

<210> 2007
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2007
tggagccagt gagcgtgg 18

<210> 2008
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2008
tctggagccg atgagcgtg 19

<210> 2009
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2009
ctggagccag taagcgtgg 19

<210> 2010
<211> 861
<212> DNA
<213> Klebsiella pneumoniae strain KMK107

<400> 2010
atgagtattc aacattttcg tgtcgccctt attccctttt ttgcggcatt ttgccttcct 60
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gaagaacgtt ttccaatgat gagcactttt aaagttctgc tatgtggtgc ggtattatcc 240
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gttaagtact caccagtcac agaaaagcat cttacggatg gcatgacagt aagagaatta 360
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gatcgttggg aaccggagct gaatgaagcc ataccaaacg acgagcgtga caccacgacg 540
cctgcagcaa tggcaacaac gttgcgcaaa ctattaactg gcgaactact tactctagct 600
tcccggcaac aattaataga ctggatggag gcggataaag ttgcaggacc acttctgcgc 660
tcggcccttc cggctggctg gtttattgct gataaatctg gagccagtga gcgtgggtct 720
cgcggtatca ttgcagcact ggggccagat ggtaagccct cccgtatcgt agttatctac 780
acgacgggga gtcaggcaac tatggatgaa cgaaatagac agatcgctga gataggtgcc 840
tcactgatta agcattggta a 861

<210> 2011
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<212> DNA
<213> Klebsiella pneumoniae strain CLSiS L-491

<400> 2011
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cgagtgggtt acatcgagct ggatctcaac agcggtaaga tccttgagag ttttcgcccc 180
gaagaacgtt ttccaatgat gagcactttt aaagttctgc tatgtggtgc ggtattatcc 240
cgtgttgacg ccgggcaaga gcaactcggt cgccgcatac actattctca gaatgacttg 300
gttgagtact caccagtcac agaaaagcat cttacggatg gcatgacagt aagagaatta 360
tgcagtgctg ccataaccat gagtgataac actgcggcca acttacttct gacaacgatc 420
ggaggaccga aggagctaac cgcttttttg cacaacatgg gggatcatgt aacccgcctt 480
gatcgttggg aaccggagct gaatgaagcc ataccaaacg acgagcgtga caccacgatg 540
cctgcagcaa tggcaacaac gttgcgcaaa ctattaactg gcgaactact tactctagct 600
tcccggcaac aattaataga ctggatggag gcggataaag ttgcaggacc acttctgcgc 660
tcggcccttc cggctggctg gtttattgct gataaatctg gagccagtaa gcgtggatct 720
cgcggtatca ttgcagcact ggggccagat ggtaagccct cccgtatcgt agttatctac 780
atgacgggga gtcaggcaac tatggatgaa cgaaatagac agatcgctga gataggtgcc 840
tcactgatta agcattggta a 861

<210> 2012
<211> 49
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<220>
<221> misc_feature
<222> (29)..(29)
<223> n represents a modified base

<220>
<221> modified_base
<222> (29)..(29)
<223> n = guanidyl-MR-HEG

<400> 2012
ccgcggatta ttaaaccgcc cttccgcgna tgtcagaggg atagatcca 49

<210> 2013
<211> 353
<212> DNA
<213> Kluyvera ascorbata ATCC 33433

<400> 2013
agcttaagaa ctcttatctg gattacgcga tgtcggtcat tgttggccgt gcgctgccgg 60
atgtccgaga tggcctgaag ccggtacacc gtcgcgtact ttacgccatg aacgtattgg 120
gcaatgactg gaacaaagcc tacaaaaaat cagcccgtgt cgtgggtgac gtgatcggta 180
aatatcaccc gcatggtgat actgccgtct atgacactat cgtccgtatg gcacagccat 240
tctcactgcg atacatgctg gtagatggtc aaggtaactt cggttctgtc gatggcgact 300
ccgccgcagc gatgcgttat acggaaatcc gtatgtcgaa aatcgcccat gag 353

<210> 2014
<211> 355
<212> DNA
<213> Kluyvera georgiana ATCC 51603

<400> 2014
agctcctatc tggattatgc gatgtcggtc attgttggcc gtgcgctgcc agatgtccga 60
gatggcctga agccggtaca ccgtcgcgta ctttacgcca tgaacgtact aggcaatgac 120
tggaacaaag cctataaaaa atctgcccgt gtcgttggtg acgtaatcgg taaataccat 180
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gcaatgcgtt atacggaaat ccgtctggcg aaaattgccc atgaactgat ggccg 355

<210> 2015
<211> 22
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<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2015
ccaagaagct caaaaacatc tg 22

<210> 2016
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2016
tadcctgtcc awacagccat 20

<210> 2017
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2017
actttgaata aggtcggtct ag 22

<210> 2018
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2018
acactaaaca aggttggttt ag 22

<210> 2019
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2019
acactaaaca aggtcggtct ag 22

<210> 2020
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2020
gtagctccag atgaaatgtt tg 22

<210> 2021
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2021
gtagctccag acgaaatgtt tg 22

<210> 2022
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2022

gtagctccag atgaaacgtt tg 22

<210> 2023
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2023
gtaactccag atgaaatgtt tg 22

<210> 2024
<211> 20
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<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2024
agtgaaaaga tggctgctgc 20

<210> 2025
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2025
agtgagaaaa tggctgctgc 20

<210> 2026
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2026
tccaagcatg cattatgcaa acg 23

<210> 2027
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2027
tcggtctaga tagagctaaa acg 23

<210> 2028
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2028
tatgctcttc aacaatcacg 20

<210> 2029
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2029
agccgttgag actttgaata ag 22

<210> 2030
<211> 19
<212> DNA
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<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2030
cttaatggtc ttggtatcg 19

<210> 2031
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2031
cgtgactggg gttctgctat ga 22

<210> 2032
<211> 22
<212> DNA
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<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2032
cgtgactggg gatcatcaat ga 22

<210> 2033
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2033
cgtgactggg gttctgccat ga 22

<210> 2034
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
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Oligonucleotide

<400> 2034
atcaagaaca ctggctatgt ag 22

<210> 2035
<211> 22
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2035
atcaagaaca ctggctacgt ag 22

<210> 2036
<211> 22
<212> DNA
<213> Artificial Sequence

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Oligonucleotide

<400> 2036
atcaagaaca ctggttacgt ag 22

<210> 2037
<211> 22
<212> DNA
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<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2037
atcaaaaata ctggttatgt ag 22

<210> 2038

<211> 22
<212> DNA
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<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2038
atcaagaata ctggctacgt ag 22

<210> 2039
<211> 22
<212> DNA
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<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2039
atcaaaaaca ctggctatgt ag 22

<210> 2040
<211> 19
<212> DNA
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<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2040
tgtgacccca gacaaaccc 19

<210> 2041
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence:
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<400> 2041
gttgagcggc agcactatct 20

<210> 2042
<211> 20
<212> DNA
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<220>
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Oligonucleotide

<400> 2042
cacggggatt tctctattta 20

<210> 2043
<211> 20

<212> DNA
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<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2043
cacggggatt actctattta 20

<210> 2044
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2044
accgtaagtc ggccaagtca 20

<210> 2045
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2045
gttctttctc cgtatcgtc 19

<210> 2046
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2046
acggggattt ttctatctat 20

<210> 2047
<211> 2160
<212> DNA
<213> Streptococcus pneumoniae strain CS109

<400> 2047
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agcctatccg agagtaaact agttgcaaca acctctagta aaatctacga caataaaaat 180
caactcattg ctgacttggg ttctgaacgc cgcgtcaatg cccaagctaa tgatattccc 240
acagatttgg ttaaggcaat cgtttctatc gaagaccatc gcttcttcga ccacaggggg 300
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ggtggatcaa ctctcaccca acagttgatt aaattgactt acttttcaac ctcgacttcc 420
gaccagacta tttctcgtaa ggctcaggaa gcttggttag cgattcagtt agaacaaaaa 480
gcaaccaaac aggaaatctt gacctactat ataaataagg tctacatgtc taatggcaac 540
tatggaatgc agacagcagc tcaaaactac tatggtaaag acctcaataa tttaagttta 600

cctcagttag ccttgctggc tggaatgcct caggcaccaa accaatatga cccctattca 660
catccagaag cagcccaaga ccgccgaaac ttggtcttat ctgaaatgaa aaatcaaggt 720
tacatctctg ctgaacagta tgagaaagca gtcaatacac caattactga tggactacaa 780
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caacaatcaa atacaacccc tgatcaacaa aatcagaatc ctcaaccagc acaaccataa 2160

<210> 2048
<211> 2160
<212> DNA
<213> Streptococcus pneumoniae strain R6

<400> 2048
atgaacaaac caacgattct gcgcctaatc aagtatctga gcattagctt cttaagcttg 60
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agcctatccg agagtaaact agttgcaaca acttctagta aaatctacga caataaaaat 180
caactcattg ctgacttggg ttctgaacgc cgcgtcaatg cccaagctaa tgatattccc 240
acagatttgg ttaaggcaat cgtttctatc gaagaccatc gcttcttcga ccacaggggg 300
attgatacca tccgtatcct gggagctttc ttgcgcaatc tgcaaagcaa ttccctccaa 360
ggtggatcag ctctcactca acagttgatt aagttgactt acttttcaac ttcgacttcc 420
gaccagacta tttctcgtaa ggctcaggaa gcttggttag cgattcagtt agaacaaaaa 480
gcaaccaagc aagaaatctt gacctactat ataaataagg tctacatgtc taatgggaac 540
tatggaatgc agacagcagc tcaaaactac tatggtaaag acctcaataa tttaagttta 600
cctcagttag ccttgctggc tggaatgcct caggcaccaa accaatatga cccctattca 660
catccagaag cagcccaaga ccgccgaaac ttggtcttat ctgaaatgaa aaatcaaggc 720
tacatctctg ctgaacagta tgagaaagca gtcaatacac caattactga tgggctacaa 780
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tctagctcaa ccactccaag cacaaataat agtacgacta ccaatcctaa caataatacg 2100
caacaatcaa atacaacccc tgatcaacaa aatcagaatc ctcaaccagc acaaccataa 2160

<210> 2049
<211> 2160
<212> DNA
<213> Streptococcus pneumoniae strain URU-E159

<400> 2049
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agcctatccg agagtaaact agttgcaaca acttctagta aaatctacga caataaaaat 180
caactcattg ctgacttggg ttctgaacgc cgcgtcaatg cccaagctaa tgatattccc 240
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caacaatcaa atacaacccc tgatcaacaa aatcagaatc ctcaaccagc acaaccataa 2160

<210> 2050
<211> 930
<212> DNA
<213> Streptococcus pneumoniae strains 8303; 35193

<400> 2050
ctgtgggata tctacaactc cgatcaatac gtctcttacc ctgacgatga tttgcaagtc 60
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caagcaagta acgtttcatt tggtaccaac caagctgtgg aaaccaatcg tgactggggt 180
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aatgtcacag ccgttgagac tttgaataag gtcggtctag atagagctaa aaccttcctt 420
aatggtcttg gtatcgacta tccaagcatg cattatgcaa acgccatttc aagtaataca 480
acagaatcta ataaacaata cggagcaagt agtgaaaaaa tggctgctgc ttatgctgcc 540
tttgcaaatg gtggcactta ctataaacca atgtatatcc ataaagtcgt cttcagtgat 600

ggaagtaaaa aagagttctc taatgtcgga actcgtgcca tgaaggaaac gacagcctat 660
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aagtattcta tggctgtatg gacaggttat tcgaatcgtt taactcctat cgttggagat 900
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<210> 2051
<211> 930
<212> DNA
<213> Streptococcus pneumoniae strains 63509; M11

<400> 2051
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<210> 2052
<211> 1195
<212> DNA
<213> Streptococcus pneumoniae strain #22/HA5

<400> 2052
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<211> 930
<212> DNA
<213> Streptococcus pneumoniae strain 17619

<400> 2053

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<211> 306
<212> DNA
<213> Streptococcus pneumoniae strain R6

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tatgaagcca tggtccgtat ggctcaatgg tggagctacc gttacatgct tgtagatggt 180
catgggaatt ttggttccat ggatggagat agtgctgccg ctcaacgtta taccgaggca 240
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<210> 2055
<211> 2472
<212> DNA
<213> Streptococcus pneumoniae strain 7785

<400> 2055
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cagcgccgta ttctttattc tatgaataag gatagcaata cttttgacaa gagctaccgt 180
aagtcggcca agtcagtcgg gaacatcatg gggaatttcc acccacacgg ggattcttct 240
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<212> DNA
<213> Streptococcus pneumoniae strain StrR-16

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<210> 2057
<211> 1242
<212> DNA
<213> Streptococcus pneumoniae strain StrR-17

<400> 2057
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<210> 2058
<211> 1225
<212> DNA
<213> Streptococcus pneumoniae strain StrR-18

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<212> DNA
<213> Streptococcus pneumoniae strain StrR-38

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<210> 2060
<211> 1249
<212> DNA
<213> Streptococcus pneumoniae strain StrR-57

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<210> 2061
<211> 579
<212> DNA
<213> Streptococcus pneumoniae strain StrR-60

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<210> 2062
<211> 1216
<212> DNA
<213> Streptococcus pneumoniae strain StrR-63

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<210> 2063

<211> 810
<212> DNA
<213> Streptococcus pneumoniae ATCC 700673

<400> 2063
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ccaaccaagc tgtggaaacc aatcgtgact ggggttcaac aatgaaaccc atcaccgatt 180
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ctggcacaag agccatgaaa gaaacgactg cttacatgat gacagagatg atgaaaacag 660
tctggactta cggaactggt cgcggtgcct acctaccttg gcttccacaa gcaggtaaaa 720
caggtacttc taactatact gacgaagaaa ttgaaaagta tatcaagaac actggttacg 780
tagctccaga tgaaatgttt gtagggtata 810

<210> 2064
<211> 782
<212> DNA
<213> Streptococcus pneumoniae ATCC 700678

<400> 2064
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gctgtggaaa ccaatcgtga ctggggatca actatgaaac caatcacaga ctatgctcct 180
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ggtctagata aggctaaaac cttccttaat ggtcttggta tcgactatcc aagcatgcat 420
tatgcaaacg ccatttcaag taatacaact gaatccaaca aaaaatatgg tgcaagtagt 480
gaaaaaatag ctaccgccta tgccgcattc gcaaatggtg gtatttacca caaaccaatg 540
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agagccatga aagaaacgac tgcttacatg atgacagaaa tgatgaaaac agtctggacg 660
tacggaactg gtcgtggtgc ctacctgcct tggcttcctc aagctggtaa aacaggtacc 720
tctaactata ctgacgaaga aattgaaaag tatatcaaga acactggtta cgtagctcca 780
ga 782

<210> 2065
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2065
ccaggacgtg gaggcgatca ca 22

<210> 2066
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2066

caccgacagc gagccgatca ga 22

<210> 2067
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2067
agctgagcca attcatgg 18

<210> 2068
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2068
attcatggac cagaacaac 19

<210> 2069
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2069
cgctgtcggg gttgaccc 18

<210> 2070
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2070
gttgacccac aagcgccg 18

<210> 2071
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2071
cgactgtcgg cgctgggg 18

<210> 2072
<211> 3534
<212> DNA
<213> Mycobacterium tuberculosis strain Rv

<400> 2072
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<210> 2073
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2073
ccgagcaaca tgattgaacc atccaccaac tggctcgg 38

<210> 2074
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2074
ccgagcaaca tgattgaagc ttccaccaac tggctcgg 38

<210> 2075
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2075
ccgagccagg ttctgaagtc tctgcattat taggtgctcg g 41

<210> 2076
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2076
ccgagcygay aacattttca gattcaccca rgcgctcgg 39

<210> 2077
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2077
ccgagcaacc gatccagctc cagctacgct cgg 33

<210> 2078
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2078
ccgagccttg gtcttcggcc aaatgaacgc tcgg 34

<210> 2079
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2079
ccgagcgttc agttacttca gtccaagccg gctcgg 36

<210> 2080
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2080
ccgagccgaa gagggccaag atgtcgctcg g 31

<210> 2081
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2081
gratyrtyaa agttggtgag gaag 24

<210> 2082
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2082
cmacttcatc ycgcttcgta cc 22

<210> 2083

<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<220>
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<223> n represents a modified base

<220>
<221> modified_base
<222> (27)..(27)
<223> i

<400> 2083
ccgccgatgt tccgtaaatt acttgangaa ggtcgagccg gcgg 44

<210> 2084
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2084
cacgcgtcaa cacccgtaca agtcgtcttt tgcgcgtg 38

<210> 2085
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2085
caaactaaag aacatatctt gcta 24

<210> 2086
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2086
atataatttg catcaccttc aag 23

<210> 2087
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2087
tcagctcgtg ggattaggag ag 22

<210> 2088
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2088
aggcttcacg ctgttaggct ga 22

<210> 2089
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2089
atgctgaact tattgacctt 20

<210> 2090
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2090
cgttactgga gtcgaaatg 19

<210> 2091
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2091
cgcgacttga gatggaactt agtgagcttc ttggtcgcg 39

<210> 2092
<211> 38
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2092
cgcgacgaaa gaacttcctg aaggtcgtgc aggtccag 38

<210> 2093
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2093
tgttggcaat cgaagacacc 20

<210> 2094
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2094
ttcaatttct tgacctactt tcaa 24

<210> 2095
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2095
cggtcgggtt gaacgtgg 18

<210> 2096
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2096
cgcgaccggt accacggcca gtaatcgtgt cgcg 34

<210> 2097
<211> 1185
<212> DNA
<213> Mycoplasma pneumoniae ATCC 29342

<400> 2097
atggcaagag agaaatttga ccgatctaaa ccccacgtta atgtaggtac tattggccac 60

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aaatcagctg ctactcgtta cgaccaaatc gataaggctc cggaagaaaa agcacgggga 180
attacgatta actccgctca cgtggagtac tcctctgaca agcgtcacta tgctcacgtt 240
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<210> 2098
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2098
ctgagtcaca ccgacaaacg tc 22

<210> 2099
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2099
ccaggactga acgggatacg aa 22

<210> 2100
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2100
gcgagacgat aggttgtc 18

<210> 2101
<211> 2609
<212> DNA
<213> Mycobacterium tuberculosis strain H37Rv

<400> 2101

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acggcggcgc gcacacccaa ttgctctag 2609

<210> 2102
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2102
caccttcacc ctgaccgacg 20

<210> 2103
<211> 23
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:

Oligonucleotide

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<210> 2104
<211> 18
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

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<221> misc_feature
<222> (12)..(12)
<223> n represents a modified base

<220>
<221> modified_base
<222> (12)..(12)
<223> i

<400> 2104
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<210> 2105
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<213> Mycobacterium tuberculosis strain H37Rv

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Oligonucleotide

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<210> 2107
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<223> Description of Artificial Sequence:
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<210> 2108
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<210> 2109

<211> 38
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gcgggccctt aacgatttca gcgaatctgg attcagcccg c 41

<210> 2111
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<212> DNA
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<210> 2112
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<210> 2113
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<210> 2114
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<212> DNA
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<210> 2115
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<212> DNA
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<400> 2115
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<210> 2116
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<212> DNA
<213> Artificial Sequence

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Oligonucleotide

<400> 2116
gcgggcggta agtccaccgg taagaccttg ttggcccgc 39

<210> 2117
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2117
gcgggcgacg ccattgagcc accttcgaga gcccgc 36

<210> 2118
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
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<400> 2118
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<210> 2119
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<213> Artificial Sequence

<220>
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<400> 2119
gcgggcttac aaccctaagg ctgttccatt cgttgcccgc 40

<210> 2120
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<210> 2121
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<210> 2123
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<400> 2123
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<210> 2124
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<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2124
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<210> 2125
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<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2125
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<210> 2126
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<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2126
atatcagaga ctgatgag 18

<210> 2127
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<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2127
tagcatattc agagaatatt gt 22

<210> 2128
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Oligonucleotide

<400> 2128
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<210> 2129
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<400> 2129
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ttcagaaacg gggaatttgt attcaaaaat ggagctcgtt ctacgtggag ctcacctgct 1980

ccacaacaac ccccatcaac tgaaagttca agctcatcat cagatagttc aacttcacag 2040
tctagctcaa ccactccaag cacaaataat agtacgacta ccgatcctaa caataatacg 2100
caacaatcaa atacaacccc tgatcaacaa aatcagaatc ctcaaccagc acaacca 2157

<210> 2141
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2141
caccagtcac agaaaagc 18

<210> 2142
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2142
gccttaattt cggatagtgc 20

<210> 2143
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2143
gagaaagagc ccaattatct aatgt 25

<210> 2144
<211> 3075
<212> DNA
<213> Staphylococcus aureus strain J2870

<400> 2144
ttgacaaaga aatatttaaa cacccagaat gaaatatcag cattttggaa tactcaaaag 60
atatttaaaa aatcaattga caatagaaaa ggacaggaaa gttttgtttt ttatgacggc 120
cccccaactg caaatggcct tcctcatgct ggccatgttc ttggaagagt aatcaaggat 180
ttagttgcaa gattaaaaac tatgcaaggt ttttatgtag aaagaaaagc aggatgggat 240
acccatggct taccagttga attagaggtt gaaaaaaaaa ttggaattaa aggaaaacaa 300
gacattgaaa agtatggaat agaaaatttt ataaatgaat gtaaaaaaag tgtatttaat 360
tatgaaaaag aatggcggga ttttttctaaa gatttaggat actgggttga catggactcc 420
ccctatataa ctcttgagaa taattatatt gaaagtgtat ggaatatatt atctacattc 480
cataaaaaag gactattata taagggacat aaggtgactc cttattgtac acatgatcaa 540
accgctttaa gttctcatga agtagcgcaa ggctataaaa acgttaaaga tttatcagct 600
gttgttaaat ttcaacttac aaatagtaaa gatacttatt tcttaagttg gactaccact 660
ccctggactt tgcctgcaaa tgtagcatta gctataaata aagatcttaa ttattcaaaa 720
attcgggtag aaaatgagta ttatatctta gctacagatc taattaattc tataataact 780
gaaaaatacg aaattattga taccttttca ggaagtaatt taattaattt aaaatacatt 840
cctccttttg aaagcgacgg tttagttaat gcatattacg ttgttgatgg agaatttgtt 900
actaactcag aaggaactgg tattgttcat atagcaccag ctcatgggga agatgactac 960

caattggttt tagagcgtga tttggatttc ttaaatgtta taacaagaga aggagtatat 1020
aatgataggt tccctgaatt agttggtaat aaagctaaaa atagtgatat agaaatcata 1080
aaattattat ccaaaaaaca acttttatat aaaaaacaaa aatatgagca taattatcct 1140
cattgttgga gatgtggtaa tcctttgata tattatgcga tggaaggttg gtttattaaa 1200
acaactaatt ttaagaatga aattattaac aataataata atatagagtg gtttccttct 1260
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agaaatagat attggggaac accattaaat gtatggattt gcaatgattg taatcacgaa 1380
tacgcaccaa gtagtattaa ggatttacaa aataattcca tcaataaaat tgatgaagat 1440
attgagttgc atagacctta tgttgataat atcactctta gttgccctaa gtgtaatggg 1500
aaaatgtctc gagtagaaga agtaatcgat gtttggtttg atagcggctc tatgccgttt 1560
gctcagcatc attatccttt tgataaccag aaaattttta atcaacactt tccagctgat 1620
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aataagtacg gagccgattc tttaagatgg gccttaattt cggatagtgc tccatggaat 1860
aacaaaagat tctcagaaaa tatagtagct cagaccaaat cgaaatttat agatacgctt 1920
gataatattt ataaatttta taatatgtat aataaaatag atcactataa tcctaataat 1980
gaaattacaa aaagtagaaa tacattagat aattgggctc tttctcgctt aaacacctta 2040
ataaaagaaa gtaatattta tgtaaataat tacgatttca cttccgcagc cagattaatt 2100
aacgaatata ccaatacaat aagtaattgg tatatcggag attcgagagg acgattttgg 2160
gaacaaggaa tttctaacga taaaaaagat gcgtacaata cgctttatga aattttaaca 2220
actttatcaa gactagtggc tccatttgtt ccatttatat ctgaaaaaat ccattataat 2280
ttgactggaa aaagtgtgca tttacaagat tatccacaat ataaagaaag ttttattaat 2340
caagcattgg aagatgaaat gcataccgtt ataaaaattg tagaattatc tagacaggct 2400
cgcaaaaatg cagatttaaa aattaagcaa cctttatcga aaatggtgat taaacctaat 2460
agtcaattaa acttaagttt tttacctaat tactattcaa taataaaaga cgaattaaat 2520
ataaaaaaca ttgaattaac tgataatatt aatgactata ttacctatga gcttaaattg 2580
aatttttctt ctgtgggacc aaaactaggg aacaaaacga aaaatattca aacattgata 2640
gactccctat cagagtatga taaaaaaagt ttaattgagt ctaataactt caaaagttta 2700
tcttctgatg ctgagttaac taaggatgat tttataatta aaaccttacc taaggatagt 2760
tatcaactca gtgaagataa tgactgcgtt atattattag ataaaaattt atctcctgaa 2820
ttaattcgcg aaggacatgc tagagagctc attagattaa ttcaacaatt aagaaaaaag 2880
aaaaatttac caataaatca acgtattgat atttatatcg gtgtaactgg ggaattatta 2940
gaatcaataa aaaccaataa aaatatgttt aaagaaaatt tcgtgattaa aaatatacac 3000
ttaaatgtta tagatgaata tgaaaatact attcatttta ataataaaga aataaaaatt 3060
tccttattat attaa 3075

<210> 2145
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2145
gcaagatgtg gcgtgttacg gt 22

<210> 2146
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2146
ggggcgaaga agttgtccat att 23

<210> 2147
<211> 660

<212> DNA
<213> Escherichia coli

<400> 2147
atggagaaaa aaatcactgg atataccacc gttgatatat cccaatggca tcgtaaagaa 60
cattttgagg catttcagtc agttgctcaa tgtacctata accagaccgt tcagctggat 120
attacggcct ttttaaagac cgtaaagaaa aataagcaca agttttatcc ggcctttatt 180
cacattcttg cccgcctgat gaatgctcat ccggaattcc gtatggcaat gaaagacggt 240
gagctggtga tatgggatag tgttcaccct tgttacaccg ttttccatga gcaaactgaa 300
acgttttcat cgctctggag tgaataccac gacgatttcc ggcagtttct acacatatat 360
tcgcaagatg tggcgtgtta cggtgaaaac ctggcctatt tccctaaagg gtttattgag 420
aatatgtttt tcgtctcagc caatccctgg gtgagtttca ccagttttga tttaaacgtg 480
gccaatatgg acaacttctt cgcccccgtt ttcaccatgg gcaaatatta tacgcaaggc 540
gacaaggtgc tgatgccgct ggcgattcag gttcatcatg ccgtctgtga tggcttccat 600
gtcggcagaa tgcttaatga attacaacag tactgcgatg agtggcaggg cggggcgtaa 660

<210> 2148
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2148
cagattaaat gcggattcag cc 22

<210> 2149
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2149
atcaggtaaa tcatcagcgg ata 23

<210> 2150
<211> 642
<212> DNA
<213> Escherichia coli strain K12

<400> 2150
atgaatttta cccggattga cctgaatacc tggaatcgca gggaacactt tgccctttat 60
cgtcagcaga ttaaatgcgg attcagcctg accaccaaac tcgatattac cgctttgcgt 120
accgcactgg cggagacagg ttataagttt tatccgctga tgatttacct gatctcccgg 180
gctgttaatc agtttccgga gttccggatg gcactgaaag acaatgaact tatttactgg 240
gaccagtcag acccggtctt tactgtcttt cataaagaaa ccgaaacatt ctctgcactg 300
tcctgccgtt attttccgga tctcagtgag tttatggcag gttataatgc ggtaacggca 360
gaatatcagc atgataccag attgtttccg cagggaaatt taccggagaa tcacctgaat 420
atatcatcat taccgtgggt gagttttgac ggatttaacc tgaacatcac cggaaatgat 480
gattattttg ccccggtttt tacgatggca aagtttcagc aggaaggtga ccgcgtatta 540
ttacctgttt ctgtacaggt tcatcatgca gtatgtgatg gctttcatgc agcacggttt 600
attaatacac ttcagctgat gtgtgataac atactgaaat aa 642

<210> 2151
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2151
atatttcagc attaccttgg gtt 23

<210> 2152
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2152
tacacaactc ttgtagccga tta 23

<210> 2153
<211> 642
<212> DNA
<213> Shigella flexneri

<400> 2153
atgaactata caaaatttga tgtaaaaaat tgggttcgcc gtgagcattt tgagttttat 60
cggcatcgtt taccatgtgg ttttagctta acaagcaaaa ttgatatcac gacgttaaaa 120
aagtcattgg atgattcagc gtataagttt tatccggtaa tgatctatct gattgctcag 180
gccgtgaatc aatttgatga gttgagaatg gcgataaaag atgatgaatt gatcgtatgg 240
gattcagtcg acccacaatt caccgtattc catcaagaaa cagagacatt ttcagcactg 300
agttgcccat actcatccga tattgatcaa tttatggtga attatttatc ggtaatggaa 360
cgttataaaa gtgataccaa gttatttcct caaggggtaa caccagaaaa tcatttaaat 420
atttcagcat taccttgggt taattttgat agctttaatt taaatgttgc taattttacc 480
gattattttg cacccattat aacaatggca aaatatcagc aagaagggga tagactgtta 540
ttgccgctct cagtacaggt tcatcatgca gtttgtgatg gcttccatgt tgcacgcttt 600
attaatcggc tacaagagtt gtgtaacagt aaattaaaat aa 642

<210> 2154
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2154
cgccattcag agtttaggac 20

<210> 2155
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2155
ttccataccg ttgcgtatca ctt 23

<210> 2156
<211> 624
<212> DNA
<213> Clostridium perfringens strain CP590

<400> 2156
atggtatttg aaaaaattga taaaaatagt tggaacagaa aagagtattt tgaccactac 60
tttgcaagtg taccttgtac atacagcatg accgttaaag tggatatcac acaaataaag 120
gaaaagggaa tgaaactata tcctgcaatg ctttattata ttgcaatgat tgtaaaccgc 180
cattcagagt ttaggacggc aatcaatcaa gatggtgaat tggggatata tgatgagatg 240
ataccaagct atacaatatt tcacaatgat actgaaacat tttccagcct ttggactgag 300
tgtaagtctg actttaaatc atttttagca gattatgaaa gtgatacgca acggtatgga 360
aacaatcata gaatggaagg aaagccaaat gctccggaaa acatttttaa tgtatctatg 420
ataccgtggt caaccttcga tggctttaat ctgaatttgc agaaaggata tgattatttg 480
attcctattt ttactatggg gaaatattat aaagaagata acaaaattat acttcctttg 540
gcaattcaag ttcatcacgc agtatgtgac ggatttcaca tttgccgttt tgtaaacgaa 600
ttgcaggaat tgataaatag ttaa 624

<210> 2157
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2157
ccacagaaat tgatattagt gttttat 27

<210> 2158
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2158
tcgctattgt aaccagttct a 21

<210> 2159
<211> 651
<212> DNA
<213> Staphylococcus aureus

<400> 2159
atgaacttta ataaaattga tttagacaat tggaagagaa aagagatatt taatcattat 60
ttgaaccaac aaacgacttt tagtataacc acagaaattg atattagtgt tttataccga 120
aacataaaac aagaaggata taaattttac cctgcattta ttttcttagt gacaagggtg 180
ataaactcaa atacagcttt tagaactggt tacaatagcg acggagagtt aggttattgg 240
gataagttag agccacttta tacaattttt gatggtgtat ctaaaacatt ctctggtatt 300
tggactcctg taaagaatga cttcaaagag ttttatgatt tatacctttc tgatgtagag 360
aaatataatg gttcggggaa attgtttccc aaaacaccta tacctgaaaa tgctttttct 420
ctttctatta ttccatggac ttcatttact gggtttaact taaatatcaa taataatagt 480
aattaccttc tacccattat tacagcagga aaattcatta ataaaggtaa ttcaatatat 540
ttaccgctat ctttacaggt acatcattct gtttgtgatg gttatcatgc aggattgttt 600
atgaactcta ttcaggaatt gtcagatagg cctaatgact ggcttttata a 651

<210> 2160
<211> 23

<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2160
ttttgaacac tattttaacc agc 23

<210> 2161
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2161
gatttaactt atcccaataa cct 23

<210> 2162
<211> 648
<212> DNA
<213> Staphylococcus aureus

<400> 2162
atgactttta atattatcaa attagaaaat tgggatagaa aagaatattt tgaacactat 60
tttaaccagc aaactacgta tagcattact aaagaaattg atattacttt gtttaaagat 120
atgataaaaa agaaaggata tgaaatttat ccttctttga tttatgcaat tatggaagtt 180
gtaaataaaa ataaagtgtt tagaacagga attaatagtg agaataaatt aggttattgg 240
gataagttaa atcctttgta tacagttttt aataagcaaa ctgaaaaatt tactaacatt 300
tggactgaat ctgataacaa cttcacttct ttttataata attataaaaa tgacttgctt 360
gaatataaag ataaagaaga aatgtttcct aaaaaaccga tacctgaaaa caccataccg 420
atttcaatga ttccttggat tgattttagt tcatttaatt taaacattgg taacaatagc 480
aacttttttat tgcctattat tacgataggt aaattttata gtgagaataa taaaatttat 540
ataccagttg ctttgcagct tcatcatgct gtatgtgatg gttaccatgc ttcattattt 600
atgaatgaat ttcaagatat aattcataag gtagatgatt ggatttag 648

<210> 2163
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2163
accttcatcc taccgatgtg ggtt 24

<210> 2164
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2164

caacgacacc agcactgcca ttg 23

<210> 2165
<211> 1215
<212> DNA
<213> Salmonella typhimurium strain H3380

<400> 2165
atgaccacca cacgccccgc gtgggcctat acgctgccgg cagcactgct gctgatggct 60
cctttcgaca tcctcgcttc actggcgatg gatatttatc tccctgtcgt tccagcgatg 120
cccggcatcc tgaacacgac gcccgctatg atccaactca cgttgagcct ctatatggtg 180
atgctcggcg tgggccaagt gatttttggt ccgctctcag acagaatcgg gcgacggcca 240
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actgcaccgg cctttgtcgc tttccgtcta cttcaagcag tgggcgcgtc ggccatgctg 360
gtggcgacgt tcgcgacggt tcgcgacgtt tatgccaacc gtcctgaggg tgtcgtcatc 420
tacggccttt tcagttcgat gctggcgttc gtgcctgcgc tcggccctat cgccggagca 480
ttgatcggcg agttcttggg atggcaggcg atattcatta ctttggctat actggcgatg 540
ctcgcactcc taaatgcggg tttcaggtgg cacgaaaccc gccctctgga tcaagtcaag 600
acgcgccgat ctgtcttgcc gatcttcgcg agtccggctt tttgggttta cactgtcggc 660
tttagcgccg gtatgggcac cttcttcgtc ttcttctcga cggctccccg tgtgctcata 720
ggccaagcgg aatattccga gatcggattc agctttgcct tcgccactgt cgcgcttgta 780
atgatcgtga caacccgttt cgcgaagtcc tttgtcgtca gatggggcat cgcaggatgc 840
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tcagcggtcg cgttctactt ctgcatccaa agcctgatag tcagtatcgt cgggacattg 1080
gcggtgacgc tgttaaacgg cgatacagcg tggcccgtga tttgttacgc cacggcaatg 1140
gcagtgctgg tgtcgttggg gctggcgctc cttcgatccc gtgatgctgc caccgagaag 1200
tcgccagtcg tctag 1215

<210> 2166
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2166
gacaaaccat tcctgctg 18

<210> 2167
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2167
cagcagctgg gcggcggt 18

<210> 2168
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2168
catcaaagtt ggtgaagaag ttg 23

<210> 2169
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2169
cccgtttgcg aaaggtgg 18

<210> 2170
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2170
acgtgacgtt gacaaacca 19

<210> 2171
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2171
tcgttggatt aactgaagaa 20

<210> 2172
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2172
gtgttgaaat gttccgtaaa 20

<210> 2173
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2173

aagaaaaaat cttcgaactg gcta 24

<210> 2174
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2174
tctacacggc cggtg 15

<210> 2175
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2175
ccgccatacc ccgttt 16

<210> 2176
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2176
cggcattacc atttccacac cttt 24

<210> 2177
<211> 49
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2177
ggcacggaca aaccattcct gctgcctatc gaagacgtgt tcccgtgcc 49

<210> 2178
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2178
ggcacgacaa accattcctg ctgcctatcg aacgtgcc 38

<210> 2179
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2179
ggcagctcta cttccgtacc actgacgtaa ccggctgcc 39

<210> 2180
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2180
ttcgccggcg tgggc 15

<210> 2181
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2181
agcgccacgc gcagg 15

<210> 2182
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2182
gcgcgccaac gacttctacc acgaaatgga agagtcgcgc gc 42

<210> 2183
<211> 817
<212> DNA
<213> Alcaligenes faecalis subsp. faecalis ATCC 8750

<400> 2183
tatcttggtt wgctcggccg ctgacggccc aatgcctcag actcgcgagc acatcctgct 60
gagccgtcag gttggcgttc cttacatcat cgtgttcctg aacaaggccg acatggttga 120
tgacgaagag ctgatcgaac tggttgaaat ggaagttcgc gagctgttgt ccaagtacga 180
cttccctggc gacgacaccc cgatcatcaa gggttcggcc aaactggctc tggaaggcga 240
cgaaggccca ctgggcagcc aagccgttct ggctctggcc gaagcgctgg acaactacat 300
tcctacgcct gagcgtgccg ttgacggtac gttcctgatg cctgttgaag acgtgttctc 360
gatctccggc cgtggtacgg ttgtgaccgg tcgtattgag cgcggcatca tcaaggtcgg 420

cgaagaaatc gaaatcgtgg gtatcaaaga cacggtcaag accatttgta ccggcgttga 480
aatgttccgc aaactgctgg accagggcga agctggcgat aacgtcggtc tgctgctgcg 540
tggtaccaag cgtgaagacg tggaacgtgg tcaagttctg gccaagccag gctcgatcaa 600
gccacacact gacttcgacg ccgaggtgta cattctgtcc aaagaagaag gtggtcgtca 660
cactcctttc ttcaagggct accgtcctca gttctacttc cgtacaactg acgtgaccgg 720
caccatcgag ctgccagaag acaaggaaat ggttctgcca ggcgacaaca tttcgatgaa 780
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<211> 1652
<212> DNA
<213> Campylobacter coli ATCC 43479

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<211> 820
<212> DNA
<213> Succinivibrio dextrinosolvens ATCC 19716

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<210> 2186
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
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<400> 2186
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<210> 2187
<211> 1612
<212> DNA
<213> Campylobacter jejuni subsp. jejuni ATCC 33292

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<210> 2188
<211> 1667
<212> DNA
<213> Campylobacter jejuni subsp. jejuni ATCC 33560

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<210> 2189
<211> 1255
<212> DNA
<213> Leishmania guyanensis ATCC 50126

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<210> 2190
<211> 1248
<212> DNA
<213> Trypanosoma brucei subsp. brucei strain EATRO795

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<210> 2191
<211> 440
<212> DNA
<213> Aspergillus nidulans strain WSA-176

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<210> 2192
<211> 1262
<212> DNA
<213> Leishmania panamensis ATCC 50158

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<212> DNA
<213> Aspergillus nidulans strain WSA-176

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<210> 2194
<211> 887
<212> DNA
<213> Aureobasidium pullulans strain WSA-234

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<210> 2195
<211> 984
<212> DNA
<213> Emmonsia parva ATCC 10784

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acgcagcaga cgaaaccaaa ctggttatgc ccggtgacaa cgtcgagatg atcctcaaga 960
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<210> 2196
<211> 806
<212> DNA
<213> Exserohilum rostratum strain WSA-215

<400> 2196
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ggtgtcaacc gtattgatga gctgctcgag gctgtcgaca cctggatccc caccctcag 300
cgtgataccg acaagcccct cctcatggct gttgaggacg tcttctccat tgctggccgt 360
ggtaccgtcg tttctggccg tgtcgagcga ggtgtcttga agcgcgatgc cgaagtcgag 420
ctggttggca agggcactgc gcccatcaag accaaggtta ccgacattga aaccttcaag 480
aagtcgtgtg aagagtctcg cgccggtgac aactcgggtc tcctcctccg tggtgtcaag 540
cgtgacgacg tccgccgtgg catggtcgtt tctgttcctg gacaagtcaa ggcccacaag 600
aagttcctcg tctccatgta tgtgttgagc aaagaggaag gtggccgcca cacgggcttc 660
ggcgagaact acaggccaca aatgttcatc cgtactgctg acgagtcatg cgcgctgcac 720
tggccagaag gtaccccaga tgctcacgac aagcttgtta tgcctggtga taacgttgag 780
atggtttgtg agcttcacgt gccaca 806

<210> 2197
<211> 799
<212> DNA
<213> Fusarium moniliforme strain WSA-213

<400> 2197
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gagcttctta acacctatgg cttcgaaggc gacgacactc ccgtcatcat gggctcggct 180
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gctgccgtcg acgagtggat cccaaccccc gagcgtgacc ttgacaagcc cttccttatg 300
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ctccgaaccg cagatgagtc cattgacctg actttccctg agggtactga ggatgcctcc 720
agcaagatgg tcatgcctgg cgacaacacc gagatggttg tcaccatggg tcaccccaat 780
gccatcgagg ttggtcagc 799

<210> 2198
<211> 819
<212> DNA
<213> Fusarium solani ATCC 32793

<400> 2198
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gctcgtcgag atggagatgc gtgagctcct caacacctac ggcttcgagg gtgacgagac 180
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gcactaccga ccccagctct acctccgaac tgctgatgag tccatcgacc tgaccttccc 720
cgagggtacc gaggacgcca gcagcaagat ggtcatgccc ggtgacaaca ccgagatggt 780
catcaccatg ggccacccca acgccattga ggtcggtca 819

<210> 2199
<211> 1025
<212> DNA
<213> Histoplasma capsulatum strain WSA-377

<400> 2199
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cctttgtttc tgagagcatg atgatactaa tactcggaaa cgtatctatt aggcctcaaa 120
cacgtgagca tttgctcctt gcccgacagg tcggtgtcca aaagatcgtc gttttcgtga 180
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agctcttaaa cacctacgga tttgagggtg aagagacacc catcatcttt ggttctgccc 300
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ccgttgagga agtattctct atctccggtc gtggaaccgt tgcctccggt cgtgttgagc 480
gcggtgtcct caagaaggat tcagaagtcg agctaattgg gggcggctcc acccccatca 540
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ccccttttgat tatagacgaa gccgcccatc tcagcttccc tagtggagca gatgaaagca 960
aactcgttat gcctggtgac aacgtcgaga tgatcctcca gacacaccgc cccgtggctg 1020
ctgag 1025

<210> 2200
<211> 667
<212> DNA
<213> Kocuria kristinae ATCC 27570

<400> 2200
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ccgacatggt cgaggacgag gagctgctgg acctcgtcga gatggaggtc cgcgagctgc 120
tgtcctccca ggagttcgac ggcgacaacg cccccgtcat ccgcgtctcc gcgctgaagg 180
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ccctgaactc cgaggtcgag atcgtcggca tccgcccgat ccagaagacc acggtcaccg 420
ggatcgagat gttccacaag cagctcgacg aggcctgggc cggcgagaac tgcggtctgc 480
tgctgcgcgg cctgaagcgc gacgacgtcg agcgcggcca ggtcgtggtg aagccgggtt 540
ccatcacccc gcacaccaac ttcgaggcga acgtctacat cctgtccaag gacgagggtg 600
ggcgtcacaa cccgttctac tcgaactacc gtccgcagtt ctacttccgg accaccgacg 660
tcaccgg 667

<210> 2201
<211> 778
<212> DNA
<213> Vibrio mimicus ATCC 33653

<400> 2201
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aggtattcct tacatcatcg tattcatgaa caaatgtgac atggttgacg atgaagagct 120
tctagagctg gttgagatgg aagttcgtga gcttctgtct gagtacgatt tcccaggtga 180
tgacctgcca gtaatccaag gttcagcact aggcgcgcta aacggcgaag cacagtggga 240
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agtagacatg gcattcctga tgccaatcga agacgtattc tcaatccaag gtcgtggtac 360
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agtagagcgt ggtcaagtac tggcgaagcc aggttcaatc accccacaca ctaagttcga 600
atcagaagta tacgtactgt caaaagacga aggtggccgt catactccat tcttcaaagg 660
ttaccgtcca cagttctact tccgtacaac tgacgtaaca ggcagcatcg agcttccaga 720
aggcgtagaa atggtaatgc caggcgacaa catcaagatg gttgtagacc tgattgca 778

<210> 2202
<211> 412
<212> DNA
<213> Citrobacter freundii ATCC 8090

<400> 2202
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cctgctgtgt tctcagccgg ataccggtga acaagcgctg gaaatctgtg atgcactggc 180
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agaaatcgaa ggcgagattg gcgactctca catgggcctt gcggcgcgta tgatgagcca 300
ggcgatgcgt aagctggccg gtaacctgaa gcagtccaac acgctgctga ttttcatcaa 360
ccagatccgt atgaagattg gcgttatgtt cggtaacccg gaaaccacca cc 412

<210> 2203
<211> 337
<212> DNA
<213> Clostridium botulinum strain 20:1.2

<400> 2203
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accagataca ggagaacagg ctttagagat aacagaagct ttagtaagat caggagcagt 120
agatgttata gttgtagact ctgtagcagc tttagttcct agggcagaaa tagaaggaga 180
aatgggagac tcacatgtag gtcttcaagc aagacttatg tctcaagccc taagaaaatt 240
agcaggatct ataaataaat ctaagtgtgt agctatattt ataaaccaat taagagaaaa 300
ggttggtata atgtttggaa atccagaaac aactcct 337

<210> 2204
<211> 379
<212> DNA
<213> Francisella tularensis ATCC 29684

<400> 2204
aaagcaaggc ggtactgcag catttgttga tgctgagcat gcactagatc caaaatatgc 60
aaagctttta ggtgttgatg ttgataatct gatcgtgtca cagccggata cgggtgagca 120
agctttagag attgctgata tgttggtacg ttctggagga gttgatattg tagtaattga 180
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gggcttacaa gcaagattaa tgtcacaagc actaagaaaa ctaacggcaa atatcaagcg 300
ctcaaatact ctagtgatat tcattaacca aattcgtatg aagatcgggg ttatgtttgg 360
taaccctgaa actacaact 379

<210> 2205
<211> 337
<212> DNA
<213> Peptostreptococcus anaerobius ATCC 27337

<400> 2205
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gccagataca ggagaacagg ccctagatat agcagagtcc cttataagat caggagctgt 120
agatatacta gtaatagact cagtagctgc cctagtacct aaggcagaaa tagaaggtga 180
catgggagat tctcacgtag gtctacaggc tagacttatg tcacaggcac ttagaaaatt 240
gactggatct ataaagaagt caaactgtgt tgttatattt atcaaccagt tgagagaaaa 300
agtaggggtt atgttcggta atccagagac aacaaca 337

<210> 2206
<211> 337
<212> DNA
<213> Peptostreptococcus asaccharolyticus strain LSPQ 2639

<400> 2206
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acctgataca ggtgagcaag ccttagaaat aactgaagct cttgtaagat ctaacgctgt 120
tgatttaatt attatagact cagttgccgc acttgtacca aaagcagaaa tcgatggtga 180
catgggagct gcacaaatag gtcttcaagc aagacttatg tctcaagctc ttagaaaatt 240
aactggggca atcaacaagt caaaatgtac cgttgtattt attaaccaac ttagagaaaa 300
agttggtatc atgtttggta acccagaaac tacaaca 337

<210> 2207
<211> 408
<212> DNA
<213> Providencia stuartii ATCC 33672

<400> 2207
ctcacgttgc aagttattgc agcagcacaa cgtagcggaa aaacctgtgc atttatcgac 60
gctgaacatg cgctagatcc aatctatgcg aaaaaactgg gtgttgatat cgataacctt 120
ctatgttctc aacctgatac tggtgagcaa gcattagaga tttgtgatgc actgacgcgt 180
tcaggcgctg ttgatgtcat tatcgttgac tccgtggccg cattaacacc aaaagctgaa 240
attgaaggtg aaatcggtga ctcacacatg ggcttagcgg ctcgtatgat gagccaagcg 300
atgcgtaaat tagcgggtaa cttaaagaac tcgaatacac ttttaatctt cattaaccaa 360
atccgtatga agattggcgt tatgtttggt aacccagaaa ccactaca 408

<210> 2208
<211> 403
<212> DNA
<213> Salmonella choleraesuis subsp. choleraesuis ATCC 9150

<400> 2208
gctgcaggtg attgccgctg cgcagcgtga aggtaaaacc tgtgcgttta tcgatgcgga 60
acacgcgctt gaccctgttt acgcacgcaa gctgggcgtc gatatcgata acctgctttg 120
ttctcagccg gataccggcg agcaggcgct ggaaatctgt gacgcgctgg cgcgttcagg 180
cgcggtggac gtcattgtgg tcgactccgt agcggcgcta acgccgaaag cggaaatcga 240
aggcgaaatt ggcgactctc acatgggcct cgcggcgcgt atgatgagcc aggcgatgcg 300
taagctggcg gggaacctaa aacagtccaa cacgctgttg attttcatca accagatccg 360
tatgaagatt ggcgtgatgt tcggtaaccc ggaaaccacc acc 403

<210> 2209
<211> 412
<212> DNA
<213> Salmonella choleraesuis subsp. choleraesuis ATCC 14028

<400> 2209
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cgatgcggaa cacgcgcttg accctgttta cgcacgcaag ctgggcgtcg atatcgataa 120
cctgctctgc tctcagccgg ataccggcga gcaggcgctg gaaatctgtg acgcgctggc 180
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ggaaatcgaa ggcgaaatcg gcgactctca catgggcctc gcggcgcgta tgatgagcca 300
ggcgatgcgt aagctggcgg ggaacctgaa acagtccaac acgctgttga ttttcatcaa 360
ccagatccgt atgaagattg gcgtgatgtt cggtaacccg gaaaccacca cc 412

<210> 2210
<211> 337
<212> DNA
<213> Staphylococcus saprophyticus ATCC 15305

<400> 2210
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acctgatcat ggggaacaag gtttagaaat tgccgaagca tttgttagaa gtggcgctgt 120
tgatatcgtt gtggtcgatt cagttgctgc gcttacacct aaagctgaaa ttgaaggtga 180
aatgggagat acgcacgttg gtttgcaagc acgtcttatg tcccaagcct tgagaaagct 240
ttccggtgca atttcaaaat caaatacaac agcagtattt atcaaccaaa tccgtgaaaa 300
agttggtgtg atgttcggta atcctgaagt tacacca 337

<210> 2211
<211> 412
<212> DNA
<213> Yersinia pseudotuberculosis ATCC 29833

<400> 2211
gacactgaca ttacaggtta tcgccgccgc acagcgtgaa ggcaaaacgt gtgcatttat 60

cgatgccgaa catgcccttg acccaatcta tgccaagaaa ttgggtgtag atattgataa 120
cctactgtgt tctcagccag atactggcga gcaggcactg gaaatttgtg atgcgctgac 180
tcgctctggt gcggttgacg ttatcatcgt tgactccgta gcggcattga caccaaaagc 240
tgaaattgaa ggtgaaattg gcgattctca tatgggcctt gccgcgcgta tgatgagcca 300
ggctatgcgt aagctggcgg gtaacctgaa gaatgcgaat accttactga tttttatcaa 360
ccaaatccgc atgaaaattg gcgtgatgtt tggtaaccca gaaaccacta cc 412

<210> 2212
<211> 404
<212> DNA
<213> Zoogloae ramigera ATCC 25935

<400> 2212
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cgacgccgag cacgcactgg acgtcacgta cgcgcaaaag ctgggcgtca acctgagcga 120
tctgctgatc tcgcaaccgg acaccggcga acaagcgctg gaaatctgcg acgccctggt 180
gcgttccggt tcggtggaca tggtcgtgat cgactcggtc gccgcgctga ccccgcgcgc 240
cgagatcgaa ggcgacatgg gcgattcgct gccaggtttg caggcacgtt tgatgtcgca 300
agcactgcgc aagcttaccg gttcgatcaa ccgcaccaac accctggtca tcttcatcaa 360
ccagatccgc atgaaaatcg gcgtcatgtt cggcagcccg gaaa 404

<210> 2213
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2213
cgtgccattg acatgatttc cgaagaagac gctgaaggca cg 42

<210> 2214
<211> 125
<212> DNA
<213> Abiotrophia adiacens ATCC 49175

<400> 2214
caactacatt acgttctgca acacaaggtc gtggtacttt cagtatgaca tttgaccact 60
atgaagatgt tcctaagagc attgcagaag aaatcatcaa gaaaaatggc ggtaacggag 120
aataa 125

<210> 2215
<211> 140
<212> DNA
<213> Acinetobacter baumannii ATCC 19606

<400> 2215
cgactcaaat gcgttctatg tctcaaggtc gtgcgacata ctcaatggaa tttgctaaat 60
atgctgaaac tccacgtaac gtggctgaag gcatcatcgc taaattccaa gctggcggta 120
aaaaaggtga cgacgagtaa 140

<210> 2216
<211> 119
<212> DNA
<213> Actinomyces meyeri ATCC 35568

<400> 2216
ccggtgacct gcgttctaag acgcagggtc gcgctgtcta ctccatggag ttcgacagct 60
acgccgaggt tccgcgcgcg gtcgcggatg agatcgtcgg caagtctcgg ggcaactga 119

<210> 2217
<211> 113
<212> DNA
<213> Clostridium difficile ATCC 9689

<400> 2217
cgaccgacgt tcgctccatg tcccagggtc gcgcaagcta ctctatggaa ttcaaaaaat 60
acaacacagc tccggcgcac atcgctgaaa ctgtatccaa aaaacaaggc tga 113

<210> 2218
<211> 119
<212> DNA
<213> Corynebacterium diphtheriae ATCC 27010

<400> 2218
gcgacctgcg ttcccgtacc cagggccgtg caaactacac catgatcttc gactcctacg 60
ctgaggttcc taccaacgtg gcagctgaga tcgtggcaga gcgcaacggc actgcctaa 119

<210> 2219
<211> 115
<212> DNA
<213> Enterobacter cloacae ATCC 13047

<400> 2219
aactcagctg cgttctctga ccaaaggtcg tgcatcatac accatggaat tcctgaagta 60
tgatgatgcg cctaacaacg ttgctcaggc cgttattgaa gcccgtggta agtaa 115

<210> 2220
<211> 115
<212> DNA
<213> Klebsiella pneumoniae subsp. pneumoniae ATCC 13883

<400> 2220
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tgatgatgcg ccgaacaacg ttgctcaggc cgttattgaa gcccgtggta aataa 115

<210> 2221
<211> 113
<212> DNA
<213> Listeria monocytogenes ATCC 15313

<400> 2221
caactcacct tcgttcaggt acgcaaggtc gtggtgtata cactatgcaa tttgaccact 60
atgaagaagt tcctaaatct attgctgaag aaatcattaa agctaatggt gga 113

<210> 2222
<211> 118
<212> DNA
<213> Mycobacterium avium ATCC 25291

<400> 2222
cggcgacctg cggtccaaga cccaaggccg ggcgaactac tccatggtct tcgactccta 60
cgccgaagtg ccggccaacg tgtcgaagga gatcatcgcg aaggcgacgg gtcagtga 118

<210> 2223
<211> 119
<212> DNA
<213> Mycobacterium gordonae strain M-Gor-1

<400> 2223
ccggcgacct gcggtccaag acgcaaggcc gggcgaacta ctccatggtg ttcgactcgt 60
acgccgaagt tccggcgaac gtgtcgaagg agatcatcgc gaaggcgacg ggcgaatag 119

<210> 2224
<211> 118
<212> DNA
<213> Mycobacterium kansasii strain Mkan-1

<400> 2224
cggcgacctg cggtccaaga ctcaaggccg ggcgaactac tcgatggtgt tcgattccta 60
cgccgaagtg ccggctcagg tgtcgaagga gatcatcgcg aaggcgactg gcgagtga 118

<210> 2225
<211> 118
<212> DNA
<213> Mycobacterium terrae strain Mter-1

<400> 2225
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cgccgaagtg ccggcgcagg tggcgaagga gattatcgcg aaggcaacgg gcgagtaa 118

<210> 2226
<211> 115
<212> DNA
<213> Neisseria polysaccharea ATCC 43768

<400> 2226
gaccgacctg cgttctgcaa cccaaggccg cgctacttac tctatggagt tcaagaaata 60
ttctgaagct cctgcccaca tagctgctgc tgtaactgaa gcccgtaaag gctaa 115

<210> 2227
<211> 118
<212> DNA
<213> Staphylococcus epidermidis ATCC 14990

<400> 2227
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<210> 2228
<211> 118
<212> DNA
<213> Staphylococcus haemolyticus ATCC 29970

<400> 2228
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tgcagaagtt ccaaaatcaa ttgctgatga tatcatcaaa aaaaataaag gtgaataa 118

<210> 2229
<211> 1630
<212> DNA
<213> Succinivibrio dextrinosolvens ATCC 19716

<400> 2229
cgttcaatgc gtgttctaga cggtgcagtt atggtttact gtgctgtggg tggtgttcag 60
cctcagtctg aaaccgtttg gagacaggct cagaagtaca aggttcctcg tattgctttc 120
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<212> DNA
<213> Tetragenococcus halophilus ATCC 33315

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aaggaatgga tgctcacggt aatgcacaaa ctgtaaatgc gt 1662

<210> 2231
<211> 1652
<212> DNA
<213> Veillonella parvula ATCC 10790

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<210> 2232
<211> 1624
<212> DNA
<213> Yersinia pseudotuberculosis ATCC 29833

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<211> 1636
<212> DNA
<213> Zoogloae ramigera ATCC 25935

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atggacgaaa tcccag 1636

<210> 2234
<211> 1656
<212> DNA
<213> Aeromonas hydrophila ATCC 7966

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caccatcacg gcgccgtcca gaacacgcat ggaacg 1656

<210> 2235
<211> 155
<212> DNA
<213> Abiotrophia adiacens ATCC 49175

<400> 2235
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cagttgattt ttaagagagt tctttggtat aattacaatc ggtagatact gttatagaat 120
ctaacaaaac tcaattaata ggaggaatca tttaa 155

<210> 2236
<211> 94
<212> DNA
<213> Acinetobacter baumannii ATCC 19606

<400> 2236
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accctccatg agtagttaat aaaggaagat catc 94

<210> 2237
<211> 150
<212> DNA
<213> Actinomyces meyeri ATCC 35568

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gtaatcccag taggtctcat gccccatggg tgttaaagtg acacctagcc gtaggctgag 120
aatttctacc cgagtccagg aggacgaaaa 150

<210> 2238
<211> 30
<212> DNA
<213> Clostridium difficile ATCC 9689

<400> 2238
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<210> 2239
<211> 317
<212> DNA
<213> Corynebacterium diphtheriae ATCC 27010

<400> 2239
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gtccaggagg acacaca 317

<210> 2240
<211> 69
<212> DNA
<213> Enterobacter cloacae ATCC 13047

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aatatagcc 69

<210> 2241
<211> 69
<212> DNA
<213> Klebsiella pneumoniae subsp. pneumoniae ATCC 13883

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aatatagcc 69

<210> 2242
<211> 126
<212> DNA
<213> Listeria monocytogenes ATCC 15313

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attacttagt ttaaatttaa gctaagtaaa aaataattat cgaattatcg aggaggatat 120
tttaaa 126

<210> 2243
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<212> DNA
<213> Mycobacterium avium ATCC 25291

<400> 2243
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tactggcagc ggagtaatct tgccgggtca ttggaatgcc ttgggcgcgg cacaactgaa 120
aacaccaaca ctgctttaac aagcaccaac tagtccagga ggacacagaa 170

<210> 2244
<211> 103
<212> DNA
<213> Mycobacterium gordonae strain M-Gor-1

<400> 2244
ggccggcaag cctgcgagta agctgacgcg gttagcaccg cggcaaaacc aagaaaaatc 60
aacactgctt ttttaagcac caacagtcca ggaggacaac aaa 103

<210> 2245
<211> 101
<212> DNA
<213> Mycobacterium kansasii strain Mkan-1

<400> 2245
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cactgctttt ataagcacca acagtccagg aggacacaga a 101

<210> 2246
<211> 91
<212> DNA
<213> Mycobacterium terrae strain Mter-1

<400> 2246
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cccagcacca acaagtccag gaggacaaga a 91

<210> 2247
<211> 87
<212> DNA
<213> Neisseria polysaccharea ATCC 43768

<400> 2247
tcaggcaaat aggccgtctg aaaggctgaa atgatttttc agacggcatt gttctttaat 60
cgatctttaa tgtaaaggaa ttagctc 87

<210> 2248
<211> 218
<212> DNA
<213> Staphylococcus epidermidis ATCC 14990

<400> 2248
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<210> 2249
<211> 204
<212> DNA
<213> Staphylococcus haemolyticus ATCC 29970

<400> 2249
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<212> DNA
<213> Artificial Sequence

<220>
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Oligonucleotide

<400> 2250
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<210> 2251
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<210> 2252
<211> 18
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<220>

<223> Description of Artificial Sequence:
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<210> 2253
<211> 19
<212> DNA
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<220>
<223> Description of Artificial Sequence:
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<210> 2254
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2254
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<210> 2255
<211> 273
<212> DNA
<213> Abiotrophia adiacens ATCC 49175

<400> 2255
atggcaaaag aaaaatttga ccgttcaaaa ccacacgtta acattggtac aatcggccac 60
gttgaccacg gtaaaacaac attaactgct gctatcacaa ctgttttagc taagaaaggt 120
ttcgcgcaag ctcaagatta cggttcaatc gataaagctc cagaagaacg cgaacgtggt 180
atcacaatca acacttctca cgttgagtac gaaacagaca ctcgtcacta tgctcacgtt 240
gactgcccag gacacgcgga ctacgttaaa aac 273

<210> 2256
<211> 273
<212> DNA
<213> Acinetobacter baumannii ATCC 19606

<400> 2256
atggctaaag ccaagtttga acgtaataaa ccacacgtaa acgtgggtac aatcggtcac 60
gttgaccatg gtaaaacaac tttaactgct gcgattgcaa caatttgtgc aaaaacttac 120
ggcggtgaag cgaaagatta ctcacaaatc gactcagcac ctgaagaaaa agcacgtggt 180
attacaatta atacatcaca cgtagaatac gattctccaa ctcgtcacta cgcacacgtt 240
gactgcccag gccacgccga ctacgttaaa aac 273

<210> 2257
<211> 279
<212> DNA
<213> Actinomyces meyeri ATCC 35568

<400> 2257
gtggcgaagg ccaagtttga gcgcaccaag ccgcacgtca acatcggcac gattggtcac 60

gttgaccacg gcaagacgac gctgacggca gctatcacca aggtgctgca tgacaagtac 120
cccgaactga acgagttcac ccccttcgat caggtcgaca acgctcccga ggagcgcgat 180
cgtggcatca cgatcaacgt ctctcacgtt gagtaccaga ccgaggcgcg tcactacgcg 240
cacgttgacg ctcccggcca cgccgactac gtcaagaac 279

<210> 2258
<211> 273
<212> DNA
<213> Clostridium difficile ATCC 9689

<400> 2258
gtggctaaag aaaaatttga tcgttcccta ccgcacgtca acgttggcac tatcggtcac 60
gttgaccatg gtaaaaccac tctgactgct gctctgactc gcgtttgctc cgaagtattc 120
ggttccgcaa tcgttgattt cgataaaatc gacagcgcac cagaagaaaa agctcgtggt 180
atcaccatca acaccgcgca cgttgaatac aactcgctga tccgtcacta cgctcacgtt 240
gactgcccag gtcacgctga ctatgtgaag aac 273

<210> 2259
<211> 279
<212> DNA
<213> Corynebacterium diphtheriae ATCC 27010

<400> 2259
gtggcaaagg ctaagttcga gcgtaccaag ccgcacgtca acatcggcac catcggtcac 60
gttgaccacg gtaagaccac caccaccgct gctatcacca aggttttggc agacgcttac 120
ccagagctga acgaagcttt cgctttcgat gccatcgata aggcaccgga agagaaagag 180
cgtggtatta ccatcaacat ctcccacgtg gagtaccaga ccgagaagcg ccactacgca 240
cacgttgacg ctccaggtca cgctgactac atcaagaac 279

<210> 2260
<211> 273
<212> DNA
<213> Enterobacter cloacae ATCC 13047

<400> 2260
gtgtctaaag aaaaatttga acgtacaaaa ccgcacgtca acgttggtac tatcggccac 60
gttgaccatg gtaaaactac cctgactgct gcaatcacta ccgttctggc taaaacctac 120
ggtggttctg ctcgtgcatt cgaccagatc gataacgcac cagaagaaaa agctcgtggt 180
atcaccatca acacctctca cgttgaatat gacaccccga ctcgccacta cgcacacgta 240
gactgcccag gtcacgccga ctatgttaaa aac 273

<210> 2261
<211> 273
<212> DNA
<213> Klebsiella pneumoniae subsp. pneumoniae ATCC 13883

<400> 2261
gtgtctaaag aaaaatttga acgtacaaaa ccgcacgtca acgttggtac tatcggccac 60
gttgaccatg gtaaaactac cctgactgct gccatcacta ccgttctggc taaaacctac 120
ggtggttccg ctcgcgcatt cgaccagatc gataacgcgc cggaagaaaa agctcgtggt 180
atcaccatca acacctctca cgttgaatat gacaccccga ctcgccacta cgcgcacgta 240
gactgcccgg gccacgccga ctatgttaaa aac 273

<210> 2262
<211> 273
<212> DNA
<213> Listeria monocytogenes ATCC 15313

<400> 2262
atggcaaaag aaaaatttga ccgctctaaa ccccatgtta acattggtac tattggacac 60
gttgaccatg gtaaaacaac tttaactgct gcaattacaa ctgtacttgc taaaaaaggc 120

tatgctgatg cacaagctta tgaccaaatt gatggtgctc cagaagaaag agaacgtgga 180
atcacaatct ctactgctca cgttgagtac caaactgaca gccgtcacta tgcacacgtt 240
gactgcccag gacatgccga ttacgttaaa aac 273

<210> 2263
<211> 279
<212> DNA
<213> Mycobacterium avium ATCC 25291

<400> 2263
gtggcgaagg cgaagttcga gcggacgaag ccgcacgtca acatcgggac catcggtcac 60
gttgaccacg gcaagaccac gctgaccgcg gctatcacca aggttctgca cgacaagtac 120
ccggacctga acgagtcccg cgcgttcgac cagatcgaca acgcgcccga ggagcgtcag 180
cgcggtatca ccatcaacat ctcccacgtg gagtaccaga ccgacaagcg gcactacgct 240
cacgtcgacg ccccgggtca cgccgactac atcaagaac 279

<210> 2264
<211> 279
<212> DNA
<213> Mycobacterium gordonae strain M-Gor-1

<400> 2264
gtggcgaagg cgaagttcca gcggaccaag ccgcacgtca acatcgggac catcggtcac 60
gttgaccacg gcaagaccac tctgaccgcg gctatcacca aggtcctgca cgacaagtac 120
ccggacctga acgagtccaa ggcgttcgac cagatcgaca acgcgcctga ggagcgtcag 180
cgcggtatca cgatcaacat cgcgcacgtg gaataccaga ccgagaagcg tcactacgcg 240
cacgtcgacg cccccggcca cgccgactac atcaagaac 279

<210> 2265
<211> 279
<212> DNA
<213> Mycobacterium kansasii strain Mkan-1

<400> 2265
gtggcgaagg cgaagttcca gcggaccaag ccccacgtca acatcgggac catcggtcac 60
gttgaccacg gcaagaccac cctgaccgcg gctatcacca aggtcctgca tgacaagttc 120
ccggacctga acgagtcgaa ggcgttcgac cagatcgaca acgctcctga ggagcgccag 180
cgcggtatca cgatcaacat cgcgcacgtg gagtaccaga ccgagaagcg gcactatgca 240
cacgtcgacg cgccgggcca cgccgactac atcaagaac 279

<210> 2266
<211> 279
<212> DNA
<213> Mycobacterium terrae strain Mter-1

<400> 2266
gtggcgaagg cgaagttcga gcggacgaag ccgcacgtca acatcgggac catcggtcac 60
gttgaccacg gcaagaccac gctgaccgcg gctatcacca aggttctgca cgacaagtac 120
ccggacctca acgagtcgcg tgcgttcgac cagatcgaca acgctcccga agagcgtcag 180
cgcggtatca ccatcaacat ctcccacgtg gagtaccaga ccgagaagcg gcactacgcc 240
cacgtcgacg ctcctggtca cgctgactac atcaagaac 279

<210> 2267
<211> 273
<212> DNA
<213> Neisseria polysaccharea ATCC 43768

<400> 2267
atggctaagg aaaaattcga acgtagcaaa ccgcacgtaa acgttggcac catcggtcac 60
gttgaccatg gtaaaaccac tctgactgct gctttgacta ctattttggc taaaaaattc 120
ggcggtgctg caaaagctta cgaccaaatc gacaacgcac ccgaagaaaa agcacgcggt 180

attaccatta acacctcgca cgtagaatac gaaaccgaaa cccgccacta cgcacacgta 240
gactgcccgg gtcacgccga ctacgttaaa aac 273

<210> 2268
<211> 273
<212> DNA
<213> Staphylococcus epidermidis ATCC 14990

<400> 2268
atggcaaaag aaaaatttga tcgctcaaaa gaacatgcca atattggtac tatcggtcac 60
gttgaccatg gtaaaacaac tttaacagct gctatcgcaa ctgtattagc taaaaatggt 120
gacactgttg cacaatcata cgatatgatt gacaacgctc cagaagaaaa agaacgtggt 180
attacaatca atactgcaca tatcgaatac caaactgaca aacgtcacta tgctcacgtt 240
gactgcccag gacacgctga ctatgttaaa aac 273

<210> 2269
<211> 273
<212> DNA
<213> Staphylococcus haemolyticus ATCC 29970

<400> 2269
atggcaaaag aaaaatttga tcgctcaaaa gaacatgcca atattggtac tatcggtcac 60
gttgaccatg gtaaaactac tttaacagct gctatcgcaa ctgtattagc taaaaatggt 120
gacactgtag cacaatcata tgacatgatt gacaacgctc cagaagaaaa agaacgtggt 180
atcacaatca atactgcaca catcgagtat caaactgaca aacgtcacta tgctcacgtt 240
gactgcccag gacacgctga ctatgttaaa aac 273

<210> 2270
<211> 812
<212> DNA
<213> Aeromonas hydrophila ATCC 7966

<400> 2270
cgatcctggt agtagcagcg actgacggcc cgatgccgca gactcgtgag cacatcctgc 60
tgggtcgtca ggtaggcgtt ccgtacatca tcgtgttcat gaacaagtgt gacatggtag 120
atgacgaaga gctgctggaa ctggtcgaga tggaagttcg cgaactgctg tccgagtacg 180
acttcccggg tgatgacctg ccggtagtcc gtggttcygc actgaaagcg ctggaaggcg 240
aagctcagtg ggaagagaag atcctggaac tggctggcca cctggacacc tacattccgg 300
agccggagcg tgccatcgac ctgccgttcc tgatgcctat cgaagacgta ttctccatcg 360
ctggccgygg taccgtagtg accggtcgtg tagagcgcgg tatcgtcaaa gttggtgaag 420
aagtggaaat cgtkggtatc aaagatacca ccaagaccac ctgtaccggc gttgaaatgt 480
tccgcaaact gctggacgaa ggtcgtgcag gcgagaacat cggtgcactg ctgcgtggcg 540
tgaagcgtga agacgtagag cgtggtcagg tactggccaa gccgggcacc atcaagccgc 600
acaccaagtt ygaatctgaa gtgtacgtgc tgtccaaaga agaaggtggt cgtcataccc 660
cgttcttcaa aggctaccgt ccgcagttct acttccgtac taccgacgtg accggtacca 720
tcgaactgcc ggaaggcgta gagatggtaa tgccgggcga caacatcaag atggttgtta 780
ccctgattgc gccgatcgcg atggacgacg gc 812

<210> 2271
<211> 799
<212> DNA
<213> Bilophila wadsworthia ATCC 49260

<400> 2271
cgacggtccc atgccccaga cccgtgagca catcctgctc gcccgtcagg tcggcgtgcc 60
tcacctcgtc gtgttcatga acaagtgtga cctcgtcgac gaccccgaac tgctcgaact 120
cgtcgaaatg gaagtccgcg aactgctgag ctcctacggc taccccggcg atgaaatccc 180
ggttgtccgc ggttccgctc tgaaggctct ggaatccgat agcgctgatt cccctgacgc 240
ccagtgcgtg ctcgaactgc tcgccgcttg cgacagctac ttcccggatc cggtccgcga 300
aaccgacaag cccttcctga tgcccatcga agacgtgttc tccatctccg gccgcggtac 360
cgtggtcacc ggtcgtgtgg aacgtggcat catcaaggtc ggcgaagaag tcgaaatcgt 420
gggtatccgt cccaccgtga agacgacctg caccggcgtc gaaatgttcc gcaagctgct 480

cgatcagggc caggccggcg acaacatcgg cgctctgctc cgcggcacga agcgtgacga 540
agtggaacgc ggccaggttc tcgccgctcc caagagcatc acgccccaca agaagttcaa 600
ggctgaagtg tacgttctgt ccaaggaaga aggcggccgc cataccccgt tcttcaccgg 660
ctatcgtcct cagttctact tccgtaccac cgacatcacc ggtatcatcg ctcttgaaga 720
aggcgttgaa atggttatgc ccggcgataa cgctaccttt aatgtcgagc tcattcaccc 780
catcgccatg gaaaagggc 799

<210> 2272
<211> 786
<212> DNA
<213> Brevundimonas diminuta ATCC 11568

<400> 2272
gatcctggtg tgctcggccg ctgacggccc gatgccgcag acccgcgagc acatcctgct 60
gtcgcgtcag gtcggcgttc cggcgctggt ggtgttcctg aacaaggtcg acatggtcga 120
cgacgaggar ctgctggagc tggtcgagat ggaagtgcgc gagctgctga gctcgtacca 180
gttcccgggc gacgacatcc cggtggtcaa gggctcggcc ctggccgcgg tggaggatcg 240
cgacccgcac atcggcgccg agcgcgttct ggagctgatg gcggcggtcg acagctacat 300
cccgcagccg gaacgtccga tcgacatgcc gttcctgatg ccggtggaag acgtgttctc 360
gatctcgggc cgcggcaccg tggtgacggg tcgcgtcgag cgcggcgtcg tcaaggtcgg 420
tgaagaagtc gaaatcgtcg gcatccgtcc ggttcagaag acgacctgca cgggcgtcga 480
aatgttccgc aagctgctgg aycagggtca rgccggcgac aacgtgggcg tgctgctgcg 540
cggcaccaag cgtgaagacg tcgagcgcgg ccaggtgctg tgcaagccgg gttcgatcac 600
cccgcacacc aagttcgtgg ctgaagccta catcctgaac aaggaagaag gcggccgtca 660
cacgccgttc ttcacgaact accgtccgca gttctacttc cgcacgacgg acgtgaccgg 720
catcgtgcgc ctgaaggaag gcgtcgagat gatcatgccg ggcgacaacg ccgagctgga 780
cgtcga 786

<210> 2273
<211> 560
<212> DNA
<213> Streptococcus mitis strain LSPQ 2583

<400> 2273
gctattatgg ctggattact atccaatacg ctatccaaga atcccgtaac gtacctgccg 60
tcaaatcgct ggaagcagtc ggattagata attcattgaa attcctcaat ggccttggta 120
tcaattatcc tgagatgcat tattctaatg cgatttcaag taatacaagc gaatctggta 180
accaatacgg agcaagtagc gaaaaaatgg ctgccgctta cgctgccttt gctaatggcg 240
gtacatatta caaaccgcaa tacgtcaacc gagttgtctt tagcgacggt acagaaaaag 300
tcttttcaaa tggcggatca aaagccatga aagagacgac agcctacatg atgacagaca 360
tgatgaagac cgttcttcag tctggaactg gtaccaatgc tgcaatccca ggagtttatc 420
aagcaggtaa aactggtact tccaactatg cagatgatga gctagagaag ttgacaaaac 480
cttattacag ttctagcatt gtcacaccag acgaactatt tgttggctat actccacaat 540
actctatggc tgtttggaca 560

<210> 2274
<211> 551
<212> DNA
<213> Streptococcus mitis ATCC 49456

<400> 2274
gctactttgg aaacattact gtccaatatg ctcttcaaca atcacgtaat gtcacagccg 60
ttgaaacttt gaataaggtc ggtctagata aggctaaagc cttccttaat gggcttggta 120
ttgattatcc aagcatgcat tatgcaaacg ccatttcaag taatacaact gaatccaaca 180
aaaaatacgg tgcaagtagt gaaaaaatgg ctgctgccta cgctgctttt gctaatggtg 240
gtatttacca caagccaatg tacatcaata aaatcgtctt tagcgacggt agtgagaaag 300
aattttctga tgccggcaca cgagctatga aagaaactac tgcctatatg atgactgaaa 360
tgatgaaaac agtcctagta tacggtaccg gacgtggagc ctacctacca tggcttccac 420
aagcaggtaa gacaggtact tctaactata ctgacgacga aattgaaaag tatatcaaga 480
acactggcta cgtagcccca gatgaaatgt ttgtagggta tactcgtaaa tatgcaatgg 540
ctgtttggac a 551

<210> 2275
<211> 560
<212> DNA
<213> Streptococcus mitis ATCC 903

<400> 2275
gctattatgg ctggattact atccaatacg ctatccaaga atcccgtaac gtaccagccg 60
tcaaatcgct ggaagcagtc ggattagata attcattgaa gttcctcaat ggccttggta 120
ttaattaccc tgaaatgcat tattctaatg cgatttcaag taatacaagc gaatctggta 180
accaatacgg agcaagtagc gaaaaaatgg ctgccgctta cgctgccttt gctaatggcg 240
gtacatatta caaaccgcaa tacgtcaacc gagttgtctt tagcgacggt acagaaaaag 300
tcttttcaaa tggcggatca aaagccatga aagaaacgac agcctacatg atgacagaca 360
tgatgaagac cgttcttcaa tctggaactg gtaccaatgc tgcaattcca ggagtctatc 420
aagcaggtaa aaccggcact tccaactatg cagatgatga actagagaag ttgacaaaac 480
cttattacag ttctagcatt gtcacaccag acgagctgtt tgttggctac actccacagt 540
actctatggc tgtttggaca 560

<210> 2276
<211> 550
<212> DNA
<213> Streptococcus oralis ATCC 35037

<400> 2276
ttattttgga aatatcacca tccaatatgc gctccaacaa tcacggaacg ttacagccgt 60
agaaaccttg aacaaagtcg gtttggatag agccaagacc ttcctgaatg gaatcggtat 120
tgactatcca gatatgcact atgccaacgc gatttcaagt aatacgactg agtcaaacaa 180
aaagtacgga gcaagtagtg agaaaatggc tgctgcttac gctgcttttg ctaacggtgg 240
tatctaccat aaaccaatgt atatcaacaa aatcgtcttt agcgatggta gctcaaaaga 300
atacgctgat cctggtactc gtgccatgaa agagacgacc gcctatatga tgacagaaat 360
gatgaagact gtcttggcat acggaacggg tcgtggtgct tatctccctt ggctacctca 420
agctggtaag actggtacat caaactatac agatgatgaa attgaaaact acatcaaaaa 480
tactggttat gtagccccag acgaaatgtt tgttggttat actcgcaaat attcaatggc 540
tgtwtggaca 550

<210> 2277
<211> 356
<212> DNA
<213> Escherichia coli ATCC 35401

<400> 2277
gctcctatct ggattatgcg atgtcggtca ttgttggccg tgcgctgcca gatgtccgag 60
atggcctgaa gccggtacac cgtcgcgtac tttacgccat gaacgtacta ggcaatgact 120
ggaacaaagc ctataaaaaa tctgcccgtg tcgttggtga cgtaatcggt aaataccatc 180
cccatggtga ctcggcggtc tatgacacga tcgtccgcat ggcgcagcca ttctcgctgc 240
gttatatgct ggtagacggt cagggtaact tcggttctat cgacggcgac tctgcggcgg 300
caatgcgtta tacggaaatc cgtctggcga aaattgccca tgaactgatg gccgat 356

<210> 2278
<211> 347
<212> DNA
<213> Escherichia coli ATCC 23511

<400> 2278
ctcttatctg gattatgcga tgtcggtcat tgttggccgc gcgctgccgg atgtccgaga 60
tggcctgaag ccggtacacc gtcgcgtact ttacgccatg aacgtattgg gcaatgactg 120
gaacaaagcc tacaaaaaat cagcccgtgt cgttggtgac gtgatcggta aataccaccc 180
gcacggcgac tccgcggtat atgacaccat cgttcgtatg gcccagccgt tctcgctgcg 240
ctacatgctg gtggatggcc aggggaactt cggttcaatc gacggcgact ccgccgcggc 300
aatgcgttat acggaaatcc gtctggcgaa aattgctcac gaactga 347

<210> 2279
<211> 362

<212> DNA
<213> Escherichia coli ATCC 43886

<400> 2279
agagctccta tctggattat gcgatgtcgg tcattgttgg ccgtgcgctg ccagatgtcc 60
gagatggcct gaagccggta caccgtcgcg tactttacgc catgaacgta ctaggcaatg 120
actggaacaa agcctataaa aaatctgccc gtgtcgttgg tgacgtaatc ggtaaatacc 180
atccccatgg tgactcggcg gtctatgaca cgatcgtccg catggcgcag ccattctcgc 240
tgcgttatat gctggtagac ggtcagggta acttcggttc tatcgacggc gactctgcgg 300
cggcaatgcg ttatacggaa atccgtctgg cgaaaattgc ccatgaactg atggccgatc 360
tc 362

<210> 2280
<211> 358
<212> DNA
<213> Escherichia coli ATCC 25922

<400> 2280
ctcctatctg gattatgcga tgtcggtcat tgttggccgt gcgctgccag atgtccgaga 60
tggcctgaag ccggtacacc gtcgcgtact ttacgccatg aacgtactag gcaatgactg 120
gaacaaagcc tataaaaaat ctgcccgtgt cgttggtgac gtaatcggta aataccatcc 180
ccatggtgac tcggcggttt atgacacgat cgtccgtatg gcgcagccat tctcgctgcg 240
ttacatgctg gtagacggtc agggtaactt cggttccatc gacggcgact ctgcggcggc 300
aatgcgttat acggaaatcc gtctggcgaa aattgcccat gaactgatgg ccgatctc 358

<210> 2281
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2281
cccccagctg ggcggcggta tcgatggggg 30

<210> 2282
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<220>
<221> misc_feature
<222> (7)..(7)
<223> n represents a modified base

<220>
<221> modified_base
<222> (7)..(7)
<223> i

<400> 2282
agrrgcnmar atgtatga 18

<210> 2283
<211> 22
<212> DNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<220>
<221> misc_feature
<222> (3)..(3)
<223> n represents a modified base

<220>
<221> misc_feature
<222> (13)..(13)
<223> n represents a modified base

<220>
<221> modified_base
<222> (3)..(3)
<223> i

<220>
<221> modified_base
<222> (13)..(13)
<223> i

<400> 2283
atntatgayg gknttcagag gc 22

<210> 2284
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a modified base

<220>
<221> modified_base
<222> (11)..(11)
<223> i

<400> 2284
tctgwgtrac nggytckgag a 21

<210> 2285
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<220>
<221> misc_feature
<222> (5)..(5)
<223> n represents a modified base

<220>
<221> modified_base
<222> (5)..(5)
<223> i

<400> 2285
cmccnccwgg tggwgawac 19

<210> 2286
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2286
agttgctgta ttaggaaatg 20

<210> 2287
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2287
tcgaagttgc tgtattagga 20

<210> 2288
<211> 1240
<212> DNA
<213> Enterococcus faecium strain BM4339

<400> 2288
tagaagctgg ctcgtttttt tataaataag ttattcgttt atttttgttt tgtgctaaaa 60
tatgagagta aatcactgaa cgatttagaa tacaggagga caatcttttg aagattactt 120
tactatatgg cggacgcagc gcagagcaga gcatgaagtg tccattcttt ccgcattttc 180
agtttttaaat gccatttatt ataattatta ccaagttcaa ctcgtattta ttacaaaaga 240
aggacaatgg gtcaaaggtc cattactaac agaaaaacct gccagcaaag atgtcttgca 300
tctttcatgg gacccaagtg gacagacaga ggaaggcttt acaggaaaag tgatcaatcc 360
gggcgaaatc aaagaagaag gagccatcgt ttttccagtt ttacatgggc caaacgggga 420
agatggaacg atccaaggct tcttagagac attgaatatg ccttatgtcg gcgcaggcgt 480
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Oligonucleotide

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<210> 2295
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